



# PUBLIC NOTICE

US Army Corps  
of Engineers  
New York District  
Jacob K. Javits Federal Building  
New York, N.Y. 10278-0090  
ATTN: Regulatory Branch

**In replying refer to:**

Public Notice Number: 2006-00485-J2

Issue Date: July 12, 2006

Expiration Date: August 10, 2006

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to

**APPLICANT:** Bergen County Utilities Authority  
Foot of Mehrhof Road, P.O. Box 9  
Little Ferry, New Jersey 07643

**ACTIVITY:** Discharge fill material into waters of the United States to facilitate the construction and installation of a 5.35 mile sanitary sewer line known as the Overpeck Valley Relief Sewer.

**WATERWAY:** Overpeck Creek and Hackensack River

**LOCATION:** Borough of Little Ferry, Ridgefield, Palisades Park, Leonia, and Englewood, Bergen County, New Jersey

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

**CENAN-OP-RW**  
**PUBLIC NOTICE NO. 2006-00485-J2**

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions or proposed actions, that are either permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). Based upon a review of the "Guide to Essential Fish Habitat Designations in the Northeastern United States," issued by the National Oceanic and Atmospheric Administration/National Marine Fisheries Service, the EFH for several aquatic species and their life stages in the proposed project area could potentially be impacted by the proposed work. Further consultation with National Marine Fisheries Service regarding EFH impacts and conservation recommendations is being conducted and will be concluded prior to a final decision on the application.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

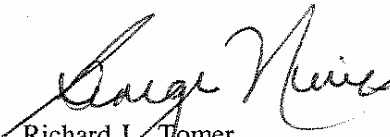
Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New Jersey the applicant's certification and accompanying information is available from the New Jersey Department of Environmental Protection, Bureau of Coastal Regulation, CN 401, 501 East State Street, Second Floor, Trenton, New Jersey 08625-0401, Telephone Number (609) 633-2289. Comments regarding the applicant's certification should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration: New Jersey Department of Environmental Protection Water Quality Certificate

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8412 and ask for James H. Cannon.

**CENAN-OP-RW**  
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For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>

*For*   
Richard L. Tomer  
Chief, Regulatory Branch

Enclosures

### WORK DESCRIPTION

The applicant, the Bergen County Utilities Authority (BCUA), has requested Department of the Army authorization to discharge fill material into waters of the United States to facilitate the construction and installation of a new 5.35 mile sanitary sewer line known as the Overpeck Valley Relief Sewer. The project alignment would be located within the Hackensack River watershed, in the Boroughs of Little Ferry, Ridgefield, Palisades Park, Leonia, and Englewood, Bergen County, New Jersey.

The proposed sanitary sewer line alignment which would include 72-inch, 66-inch and 42-inch diameter pre-stressed concrete cylinder gravity sewer pipe, would extend from the BCUA facility in the Borough of Little Ferry to an existing 42-inch diameter sewer line located on West Forest Street in the Borough of Englewood. Approximately 900 linear feet of the proposed sewer line would be installed, by open trenching, within the Hackensack River, from the BCUA facility to a microtunnelling receiving pit on the east side of the river. Installation activities within the river would occur in four phases. The first phase, and beginning on the western shore (within shallow water) would include the installation of approximately 275 linear feet of steel sheeting along the north and south sides of the sewer alignment, approximately 17 feet apart. As part of this phase a temporary pile supported steel trestle would be constructed along the northern side of the alignment to allow construction equipment access to the project site during the installation of the steel sheeting and the sewer line. Once installed, sediments located between the steel sheeting would be excavated, using a clamshell bucket, to a depth of approximately -34 feet (North American Vertical Datum, NAVD). Steel piles would be driven and the 72-inch sewer pipe would then be installed and secured by pre-cast concrete pile caps. All sediments excavated from the trench would be temporarily stored in an adjacent upland area, and return flow would discharge back to the Hackensack River. Upon completion of the pipe installation, a portion of the excavated sediments would be returned to the trench as backfill. At the completion of this phase the temporary steel trestle and steel sheeting would be removed from the waterway.

The second and third installation phases would extend through the 200 foot wide portion of the Federal Channel. A floating barge or temporary pile supported steel trestle would be used for the installation of the steel sheeting and sewer pipe. As described above, sediments would be excavated and stored on adjacent uplands, the pipe would be installed, and previously excavated soils would be used as backfill. As part of these phases, the open trench installation activities would occur in half of the Federal Channel to allow for the continued passage of vessels. Once installed, the top of the sewer pipe (elevation -23.66 feet, NAVD) would be situated approximately five feet below the 15 foot dredging depth (-18.47 feet NAVD) of the Federal Channel. An additional three foot layer of protective rock riprap would be placed on top of the pipe alignment in this area, allowing approximately 2 feet between the riprap and the authorized dredging depth of the Federal Channel. The fourth installation phase would occur in the shallow water area on the eastern side of the Hackensack River and would include the same activities as those described in Phase 1 above. A total of approximately 14,900 cubic yards of sediments would be excavated during the river crossing installation activities, and approximately 12,500 cubic yards would be utilized as backfill. The remaining 2,400 cubic yards of unused sediments would be disposed of at a state approved upland site.

**CENAN-OP-RW**  
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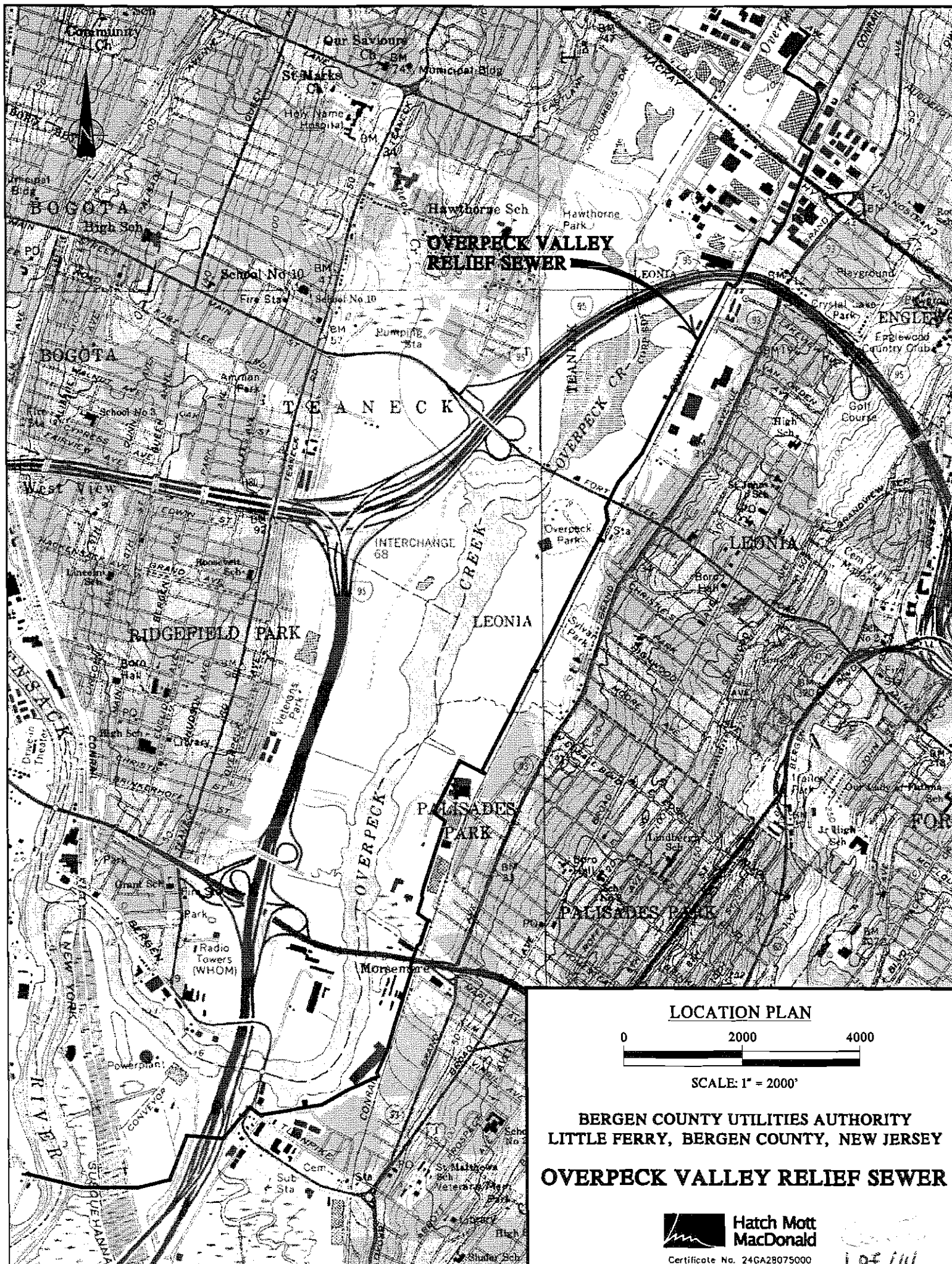
The proposed sewer line crossing would have the same top of pipe elevation (-23.66 feet, NAVD) as an existing 60-inch diameter sewer line that crosses the Hackensack River approximately 70 to 150 feet downstream of the proposed river crossing.

To protect the anadromous fishery resource of the Hackensack River and Overpeck Creek, the applicant has indicated that no in water and bank work along the waterways shall occur between April 1 and June 30 of any calendar year. In addition, no in water sediment producing activities would occur within the remaining stream crossing locations between May 1 and June 30 of any calendar year to protect the warm water fisheries resource.

From the east side of the Hackensack River, sewer pipe installation activities would include microtunneling beneath existing roads, railroads, and commercial developments, and open trenching through waters of the United States. The sewer pipe would extend through seven tributaries and associated wetlands of the Overpeck Creek. Upon completion of the sewer line open trench installation activities, a portion of the excavated sediments would be used as backfill, and all waters of the United States and wetland areas would be restored to pre-construction elevations and vegetated with native wetland species where appropriate. As a result of the proposed sewer line installation activities, approximately 0.005 acres of waters of the United States would be permanently impacted as a result of the proposed activities, with approximately 0.3 acres being temporarily disturbed.

An New Jersey Department of Environmental Protection Water Quality Certificate was issued to the applicant for the proposed activities on April 20, 2006.

The stated purpose of this project has been mandated by the New Jersey Department of Environmental Protection under an Administrative Consent Order to eliminate sanitary sewer overflows to Overpeck Creek.



# BERGEN COUNTY UTILITIES AUTHORITY

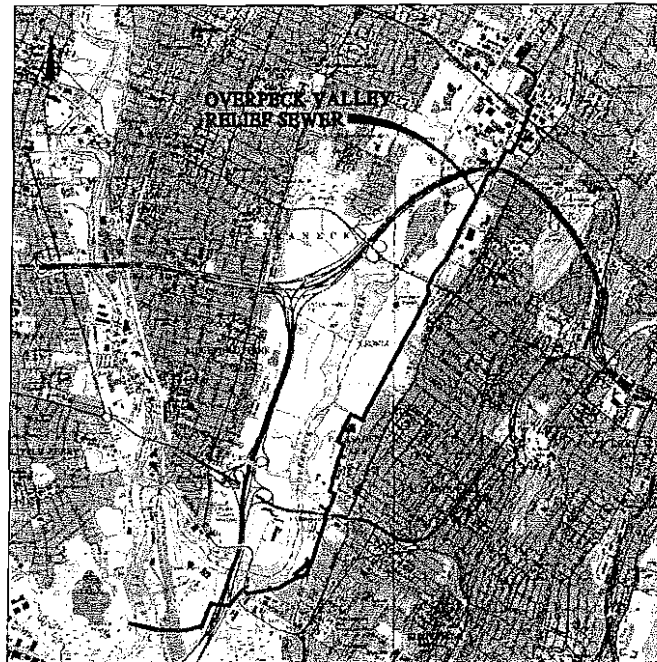
## LITTLE FERRY, BERGEN COUNTY, NEW JERSEY

# OVERPECK VALLEY RELIEF SEWER

### COMMISSIONERS

BRYAN J. CHRISTIANSEN, CHAIRMAN  
 WAYNE HAMER, VICE CHAIRMAN  
 JAMES L. CASSELLA  
 BENEDICT A. POCARINO  
 ROGER B. MATTHEI  
 JULIE ROCHINSKY  
 DOMINGO SENANDE  
 ANDREW "CHUCK" VACCARO

LEONARD R. KATNER - EXECUTIVE DIRECTOR  
 ERIC ANDERSEN, P.E. - DIRECTOR OF WATER POLLUTION CONTROL/CHIEF ENGINEER  
 WALLACE NOWOSIELSKI - CHIEF FINANCE OFFICER  
 MARYANN LAMBER - AUTHORITY SECRETARY  
 E. NEIL ZIMMERMANN, ESQ. - GENERAL COUNSEL  
 STEPHEN P. SINISI, ESQ. - SPECIAL COUNSEL



LOCATION PLAN  
 SCALE: 1"=100'

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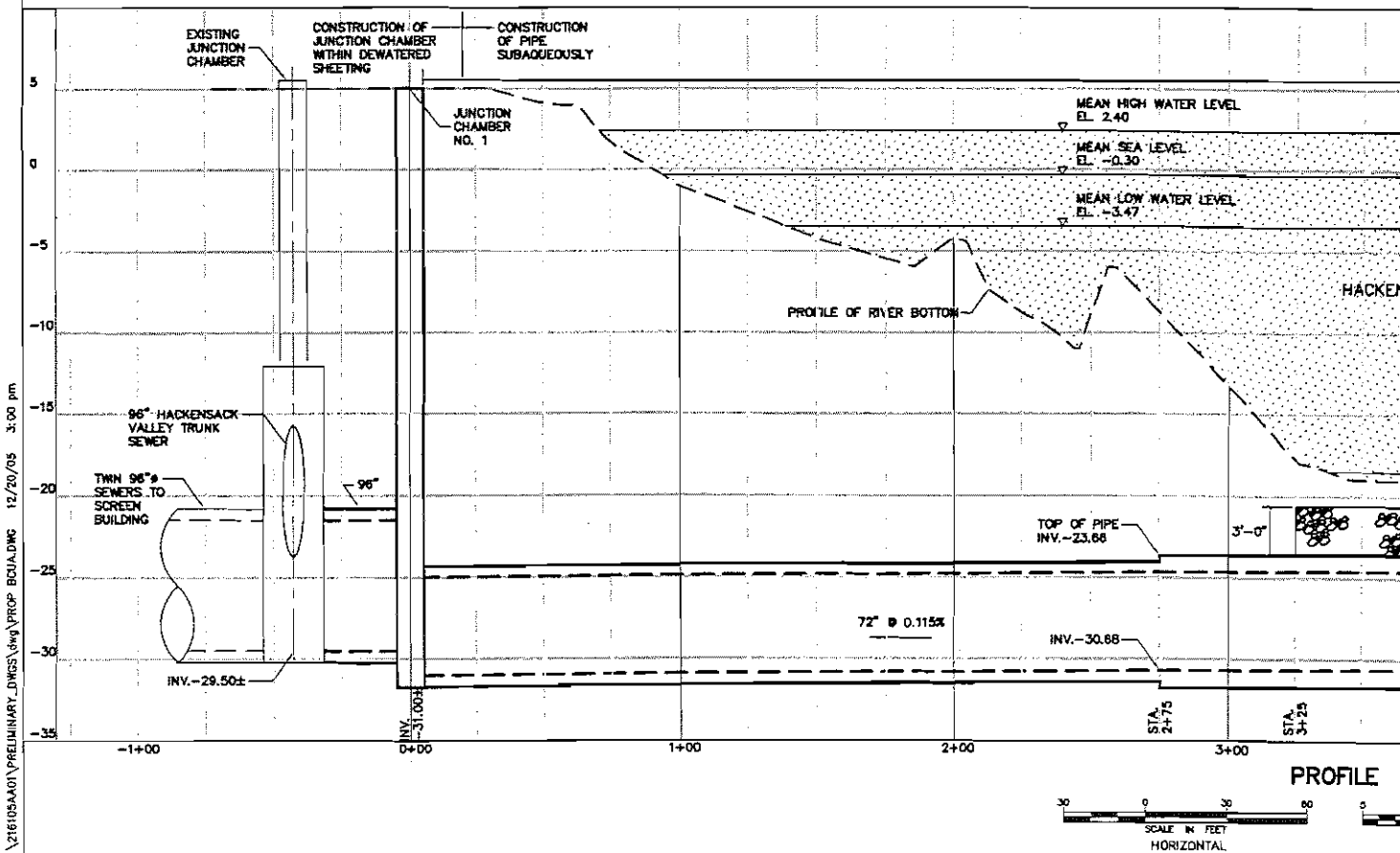
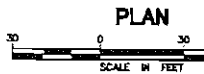
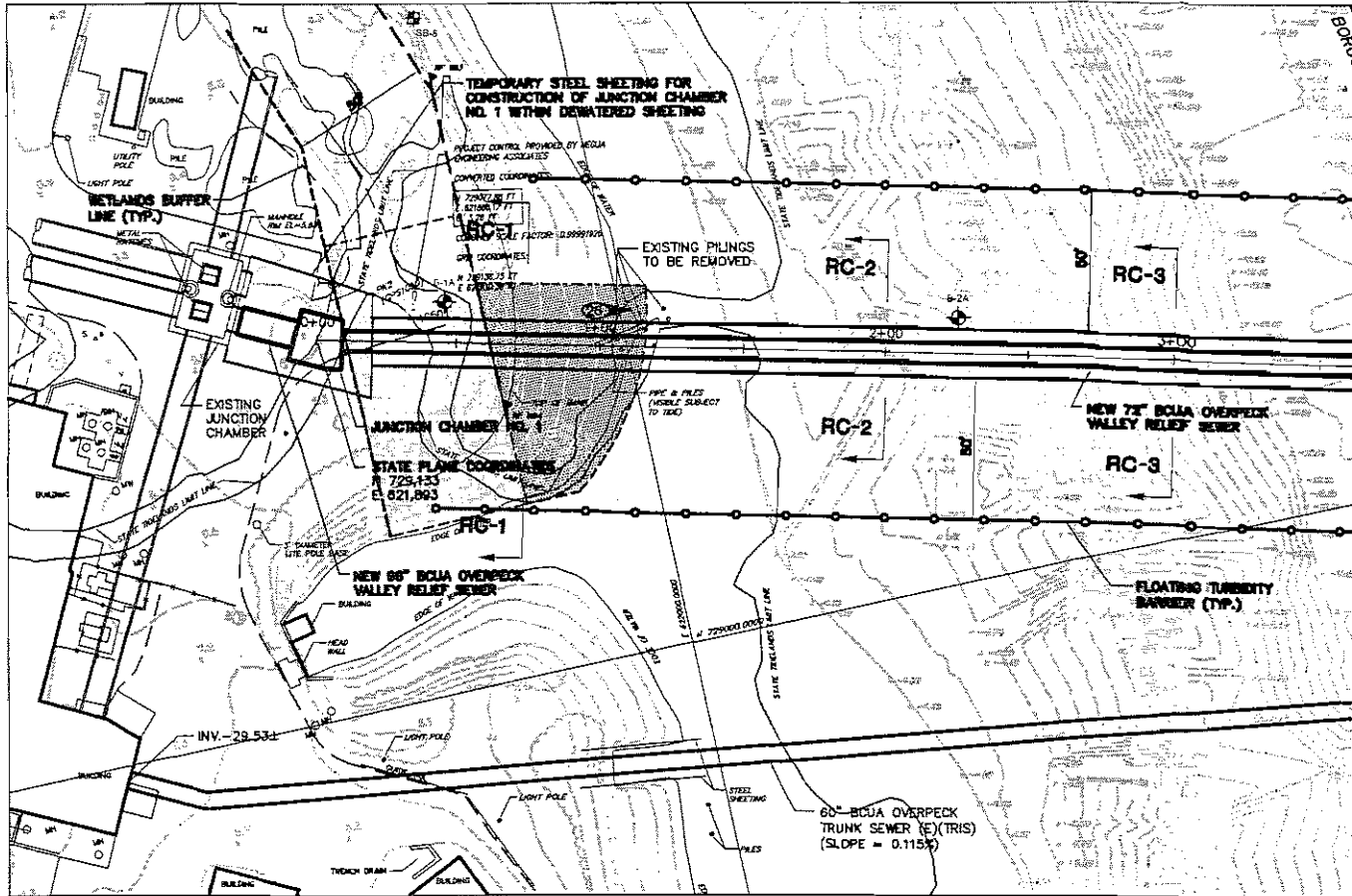
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DECEMBER, 2005

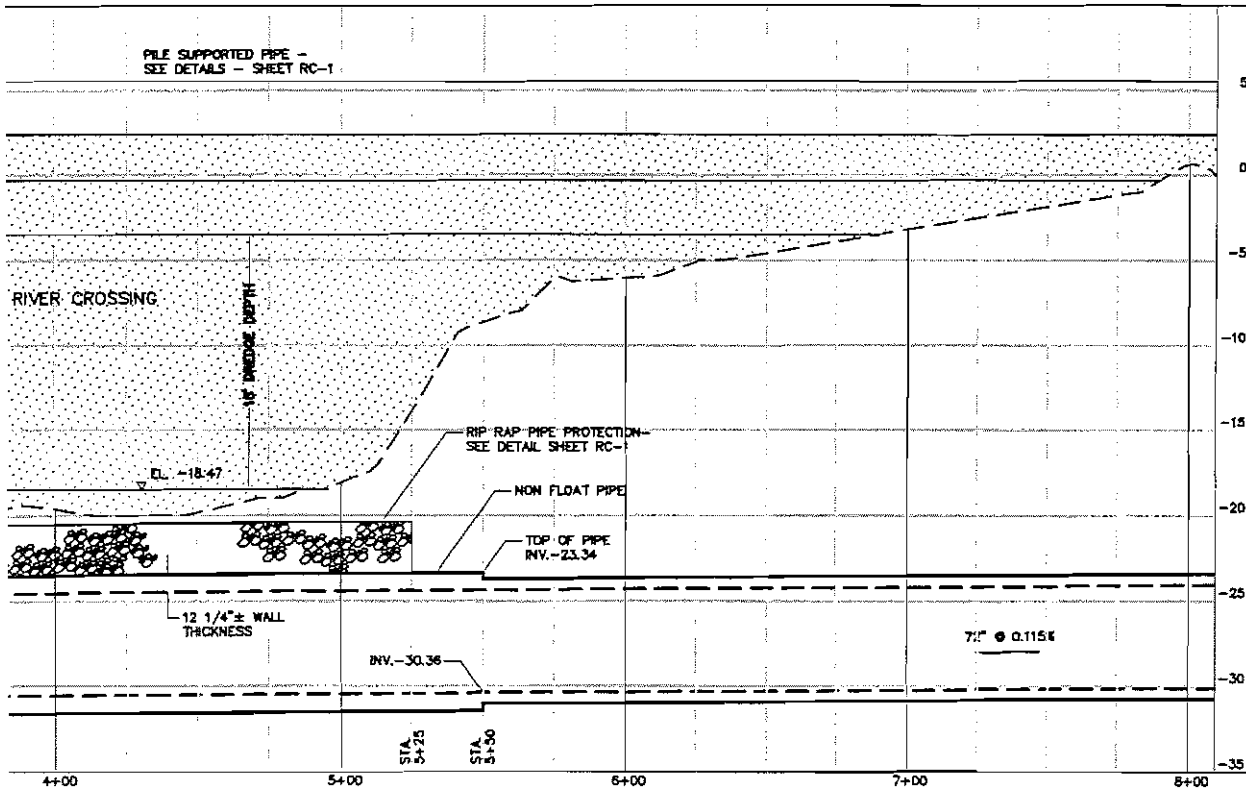
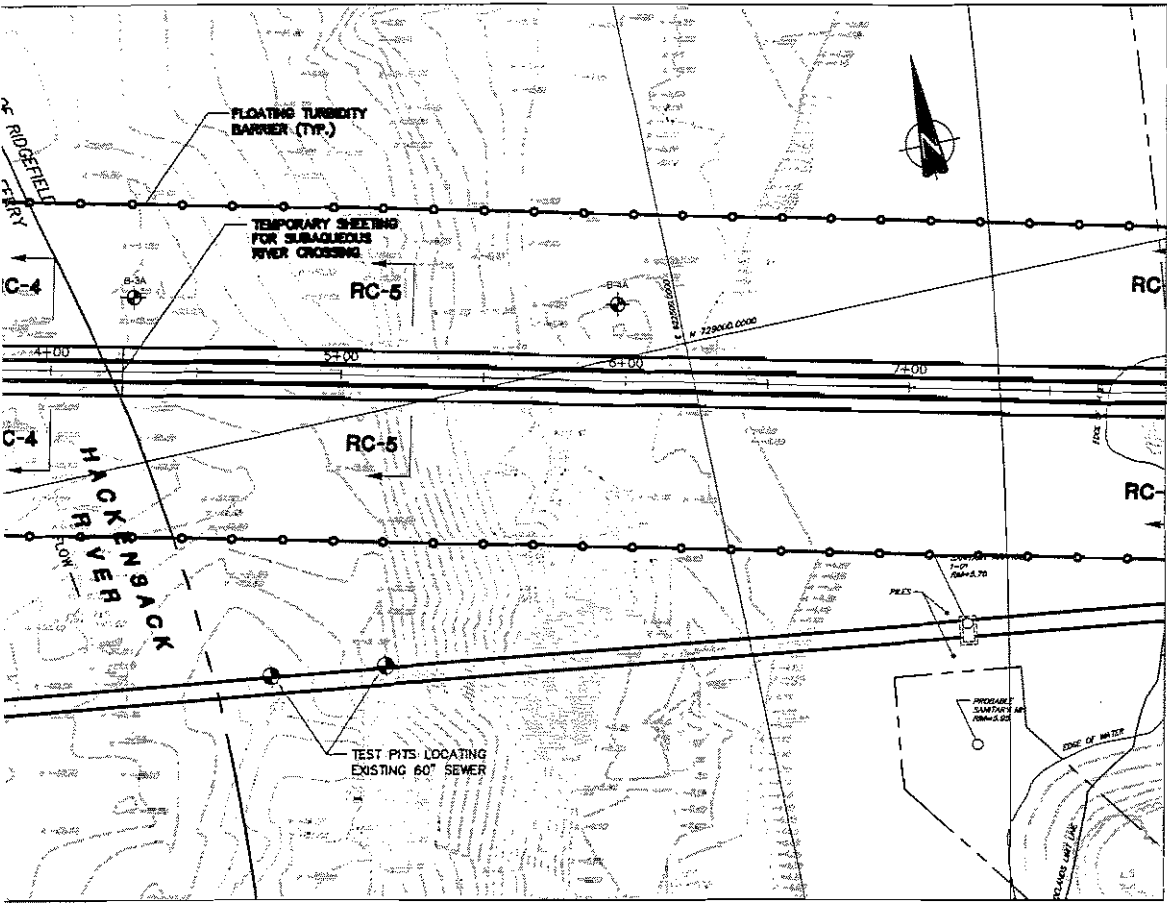
Hatch Mott MacDonald  
 Civil/Storm No. 210428075000

*James E. Farry* 1/6/06  
 JAMES E. FARRY  
 Professional Engineer - N.J. Lic. No. 26009



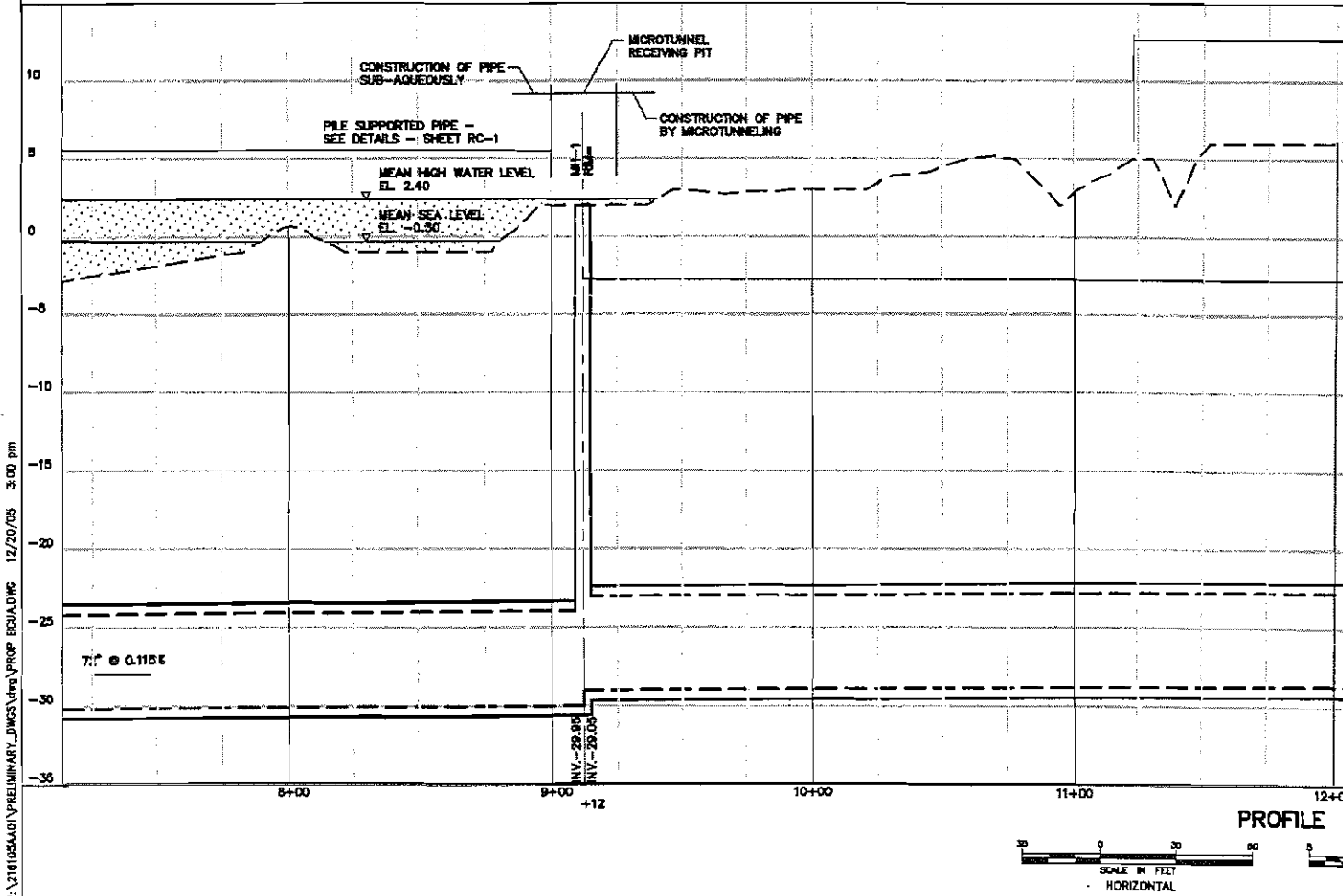
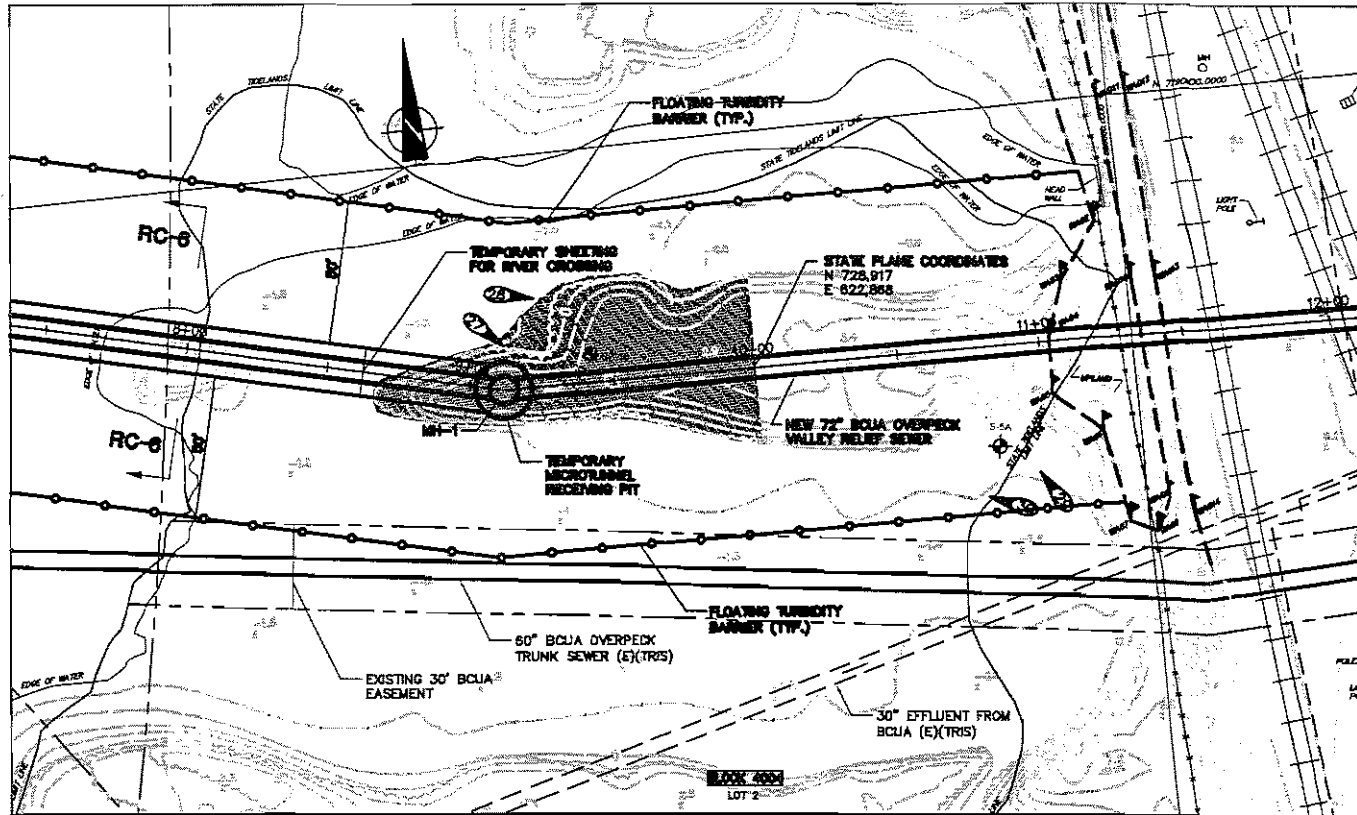




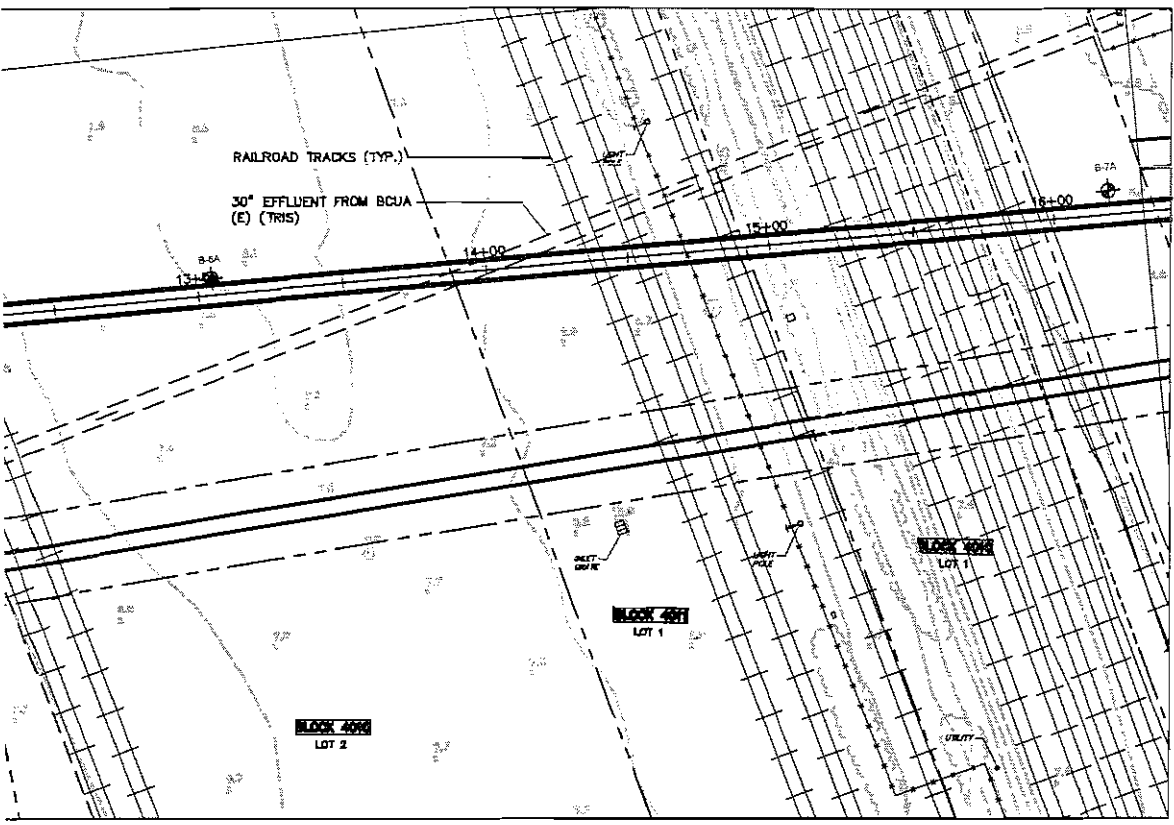


**NOTE:**  
ALL ELEVATIONS REFER TO NAVD 1988.

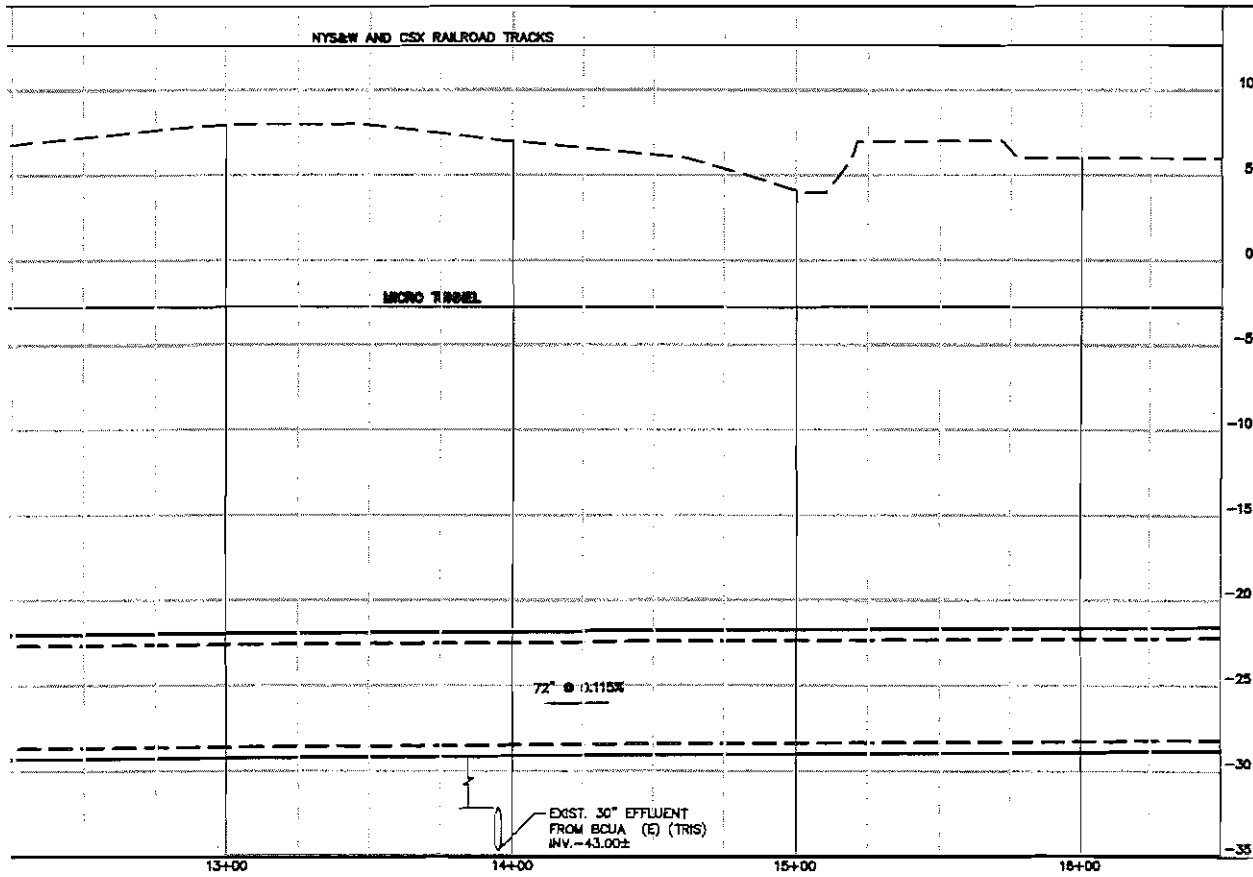
<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 28088 <i>James E. Farry</i> Date: 1/16/06		Approved	Date
		Checked JCF	Date
Drawn WJH	Design JCF	Revision	
<b>Hatch Mott MacDonald</b> Certificate No. 240A2B075000 27 Bleeker Street Millburn, New Jersey 07041		BERGEN COUNTY UTILITIES AUTHORITY BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> PLAN AND PROFILE	
Job	No.	Contract No.	
215105AA01	S-1	4126001	
B/O	Total		



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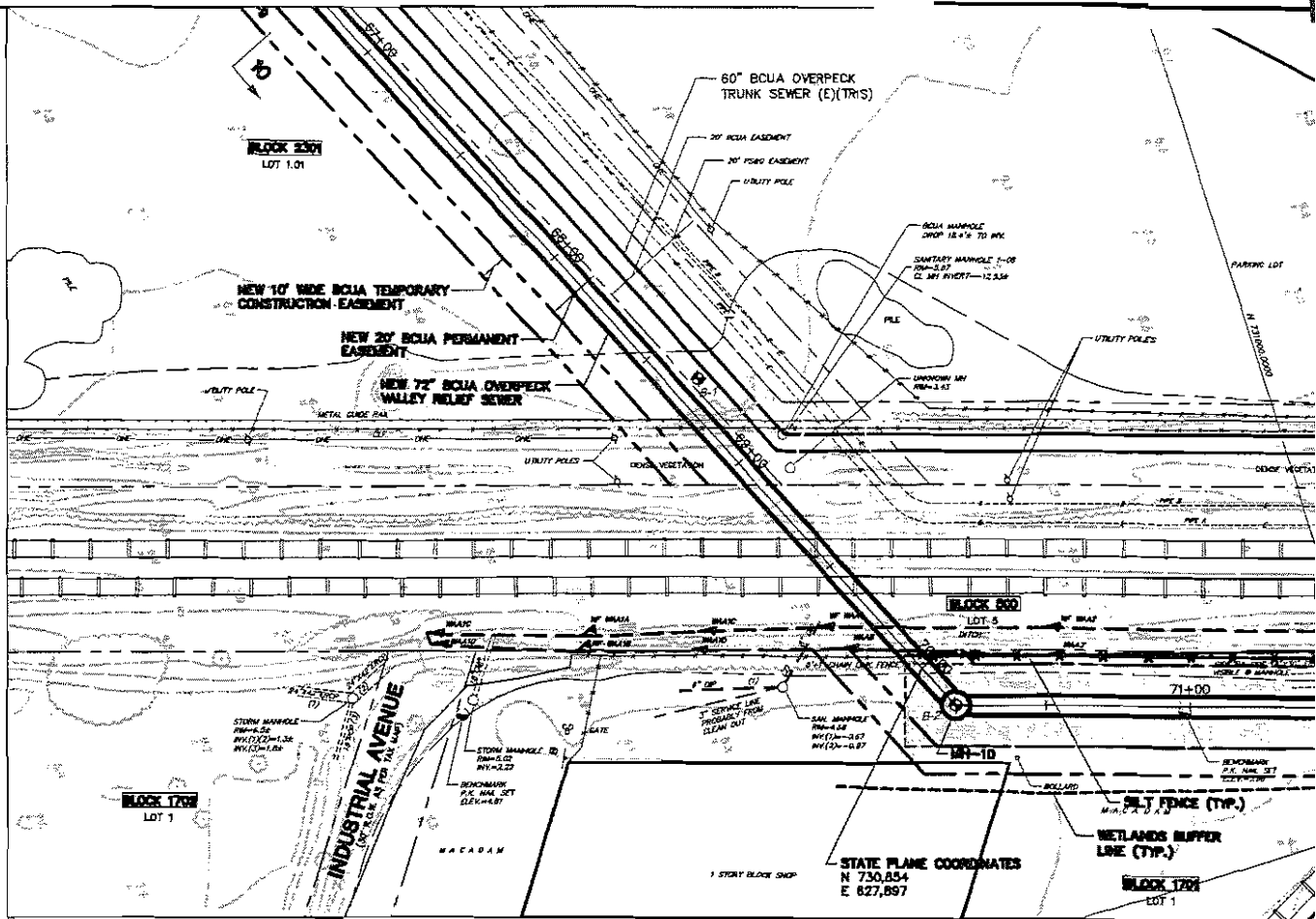
**NOTE:**  
NO WETLANDS HAVE BEEN DELINEATED IN THE AREA OF  
PROPOSED MICROTUNNELING.



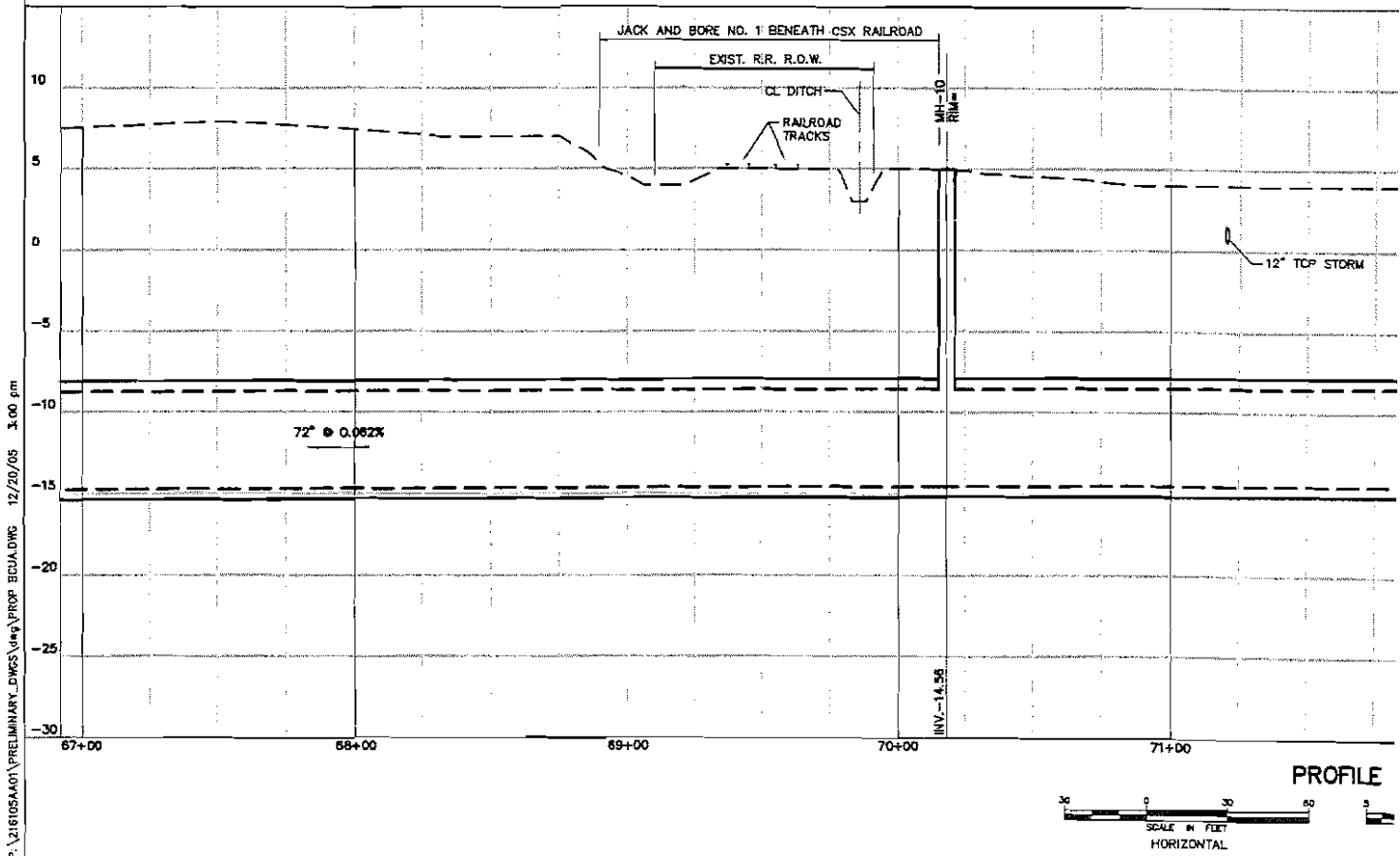
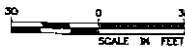
**NOTE:**  
LOCATION OF PROPOSED SEWER LINE CROSSING OF  
THE RAILROAD IS 6,100' SOUTH OF THE INTERSECTION  
WITH BERGEN TURNPIKE IN RIDGEFIELD PARK.

SCALE IN FEET  
VERTICAL

<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 28089 <i>James E. Farry</i> Date: 1/16/06		Date	
Designed JEF	Drafted JEF	Approved JEF	Date
Drawn WAH			
Checked JEF			
Date: 1/16/06			
<b>Hatch Mott MacDonald</b> Certificate No. 246A28075000 27 Bleeker Street Millburn, New Jersey 07041			
<b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY  <b>OVERPECK VALLEY RELIEF SEWER</b>  <b>PLAN AND PROFILE</b>			
Job 218105AA01	No. S-2	B/D	Total
Contract No.			

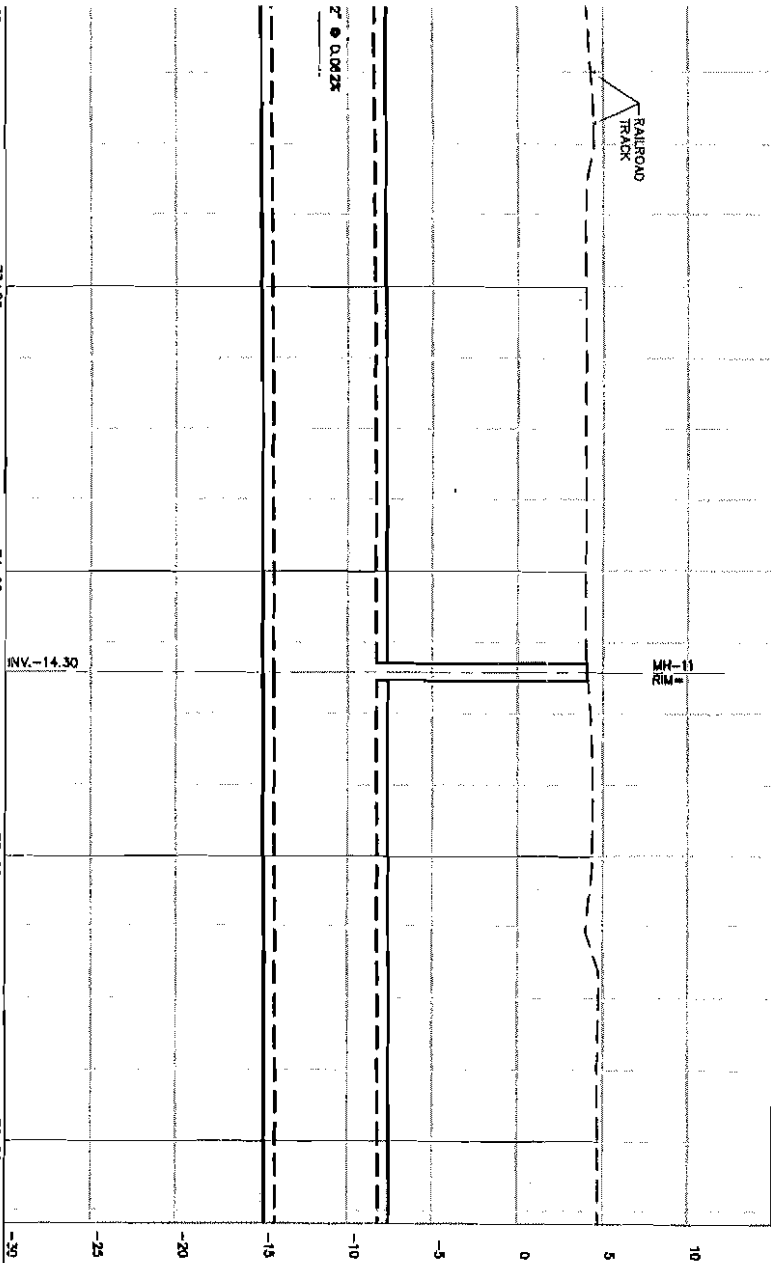
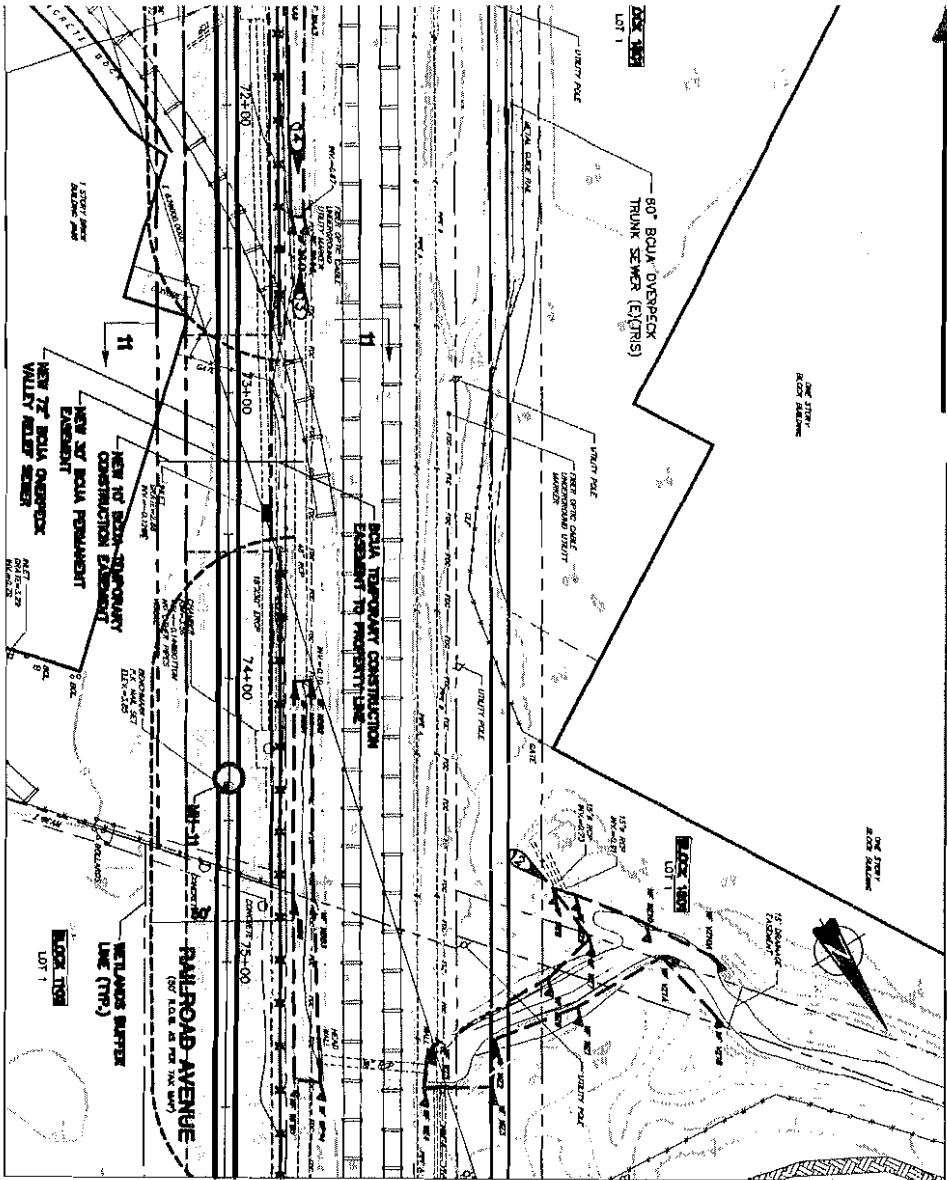


PLAN



PROFILE





**NOTE:**  
LOCATION OF PROPOSED SEWER LINE CROSSING OF  
THE RAILROAD IS 750' SOUTH OF THE INTERSECTION  
WITH SLOCUM AVENUE IN ROSEFIELD.

BERGEN COUNTY UTILITIES AUTHORITY  
BERGEN COUNTY, NEW JERSEY

OVERPECK VALLEY RELIEF SEWER

PLAN AND PROFILE

**Hatch Mott MacDonald**  
Certificate No. 24GA28075000

27 Bleeker Street  
Millburn, New Jersey 07041

**JAMES E. FARRY**  
Professional Engineer - N.J. Lic. No. 26623

*James E. Farry* Date *1/6/06*

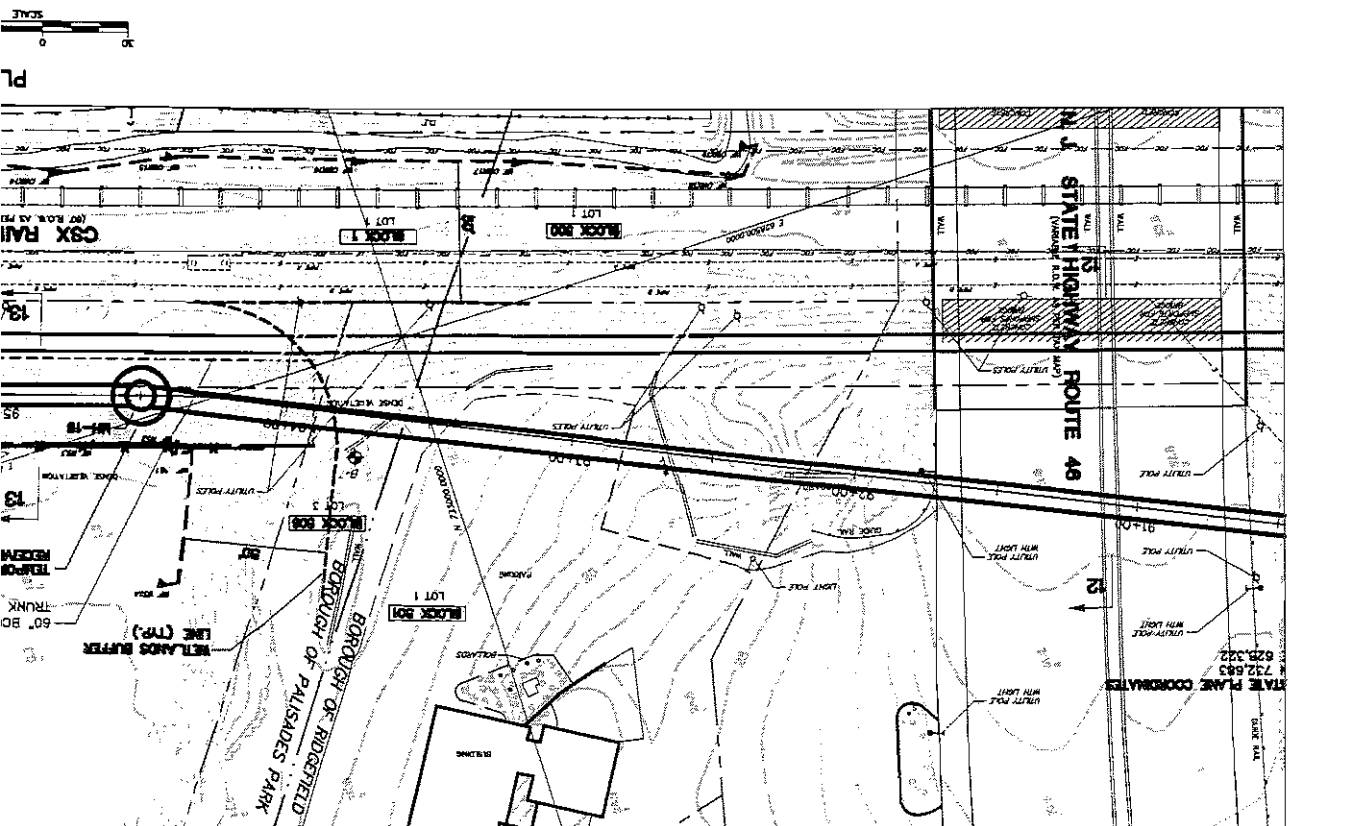
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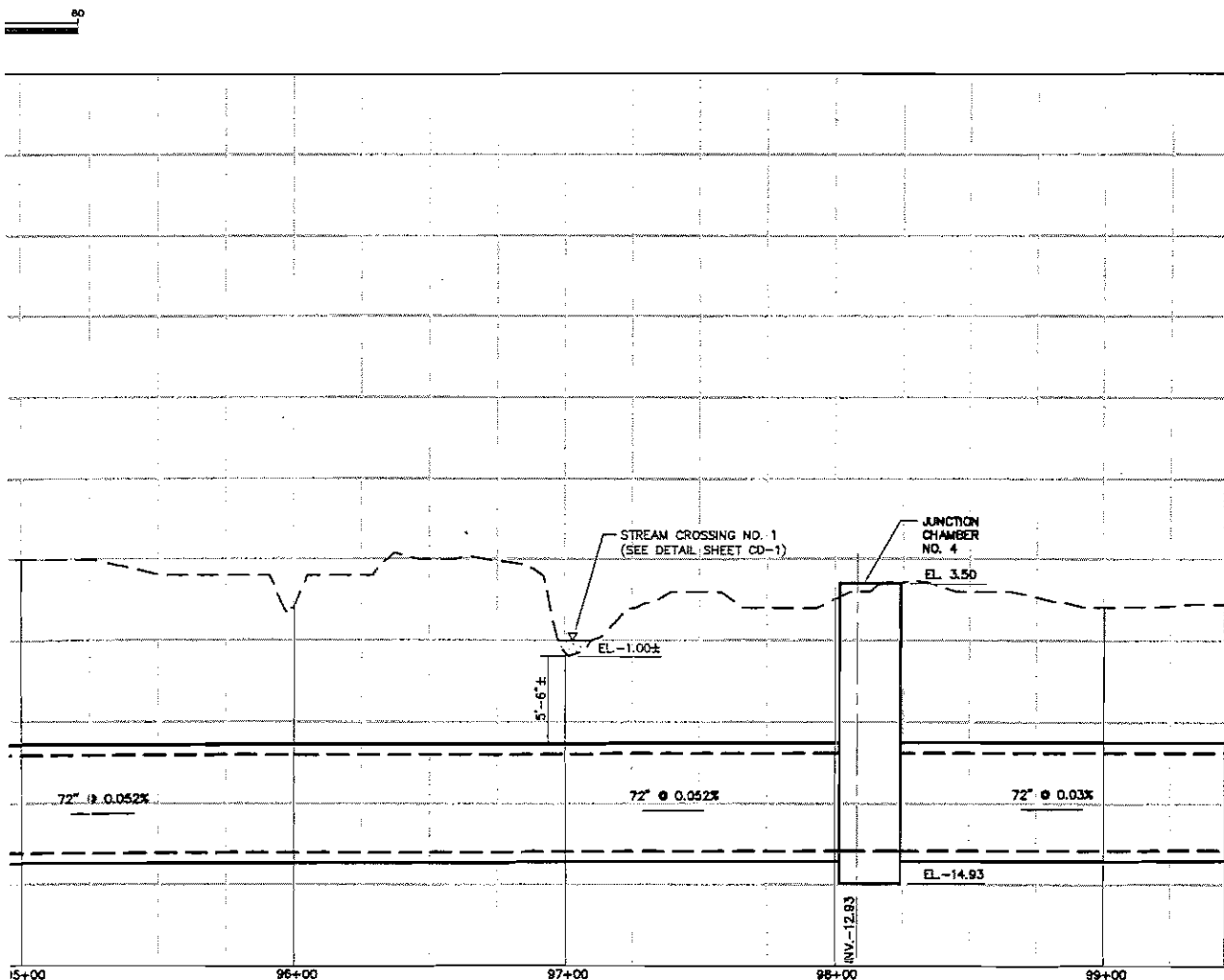
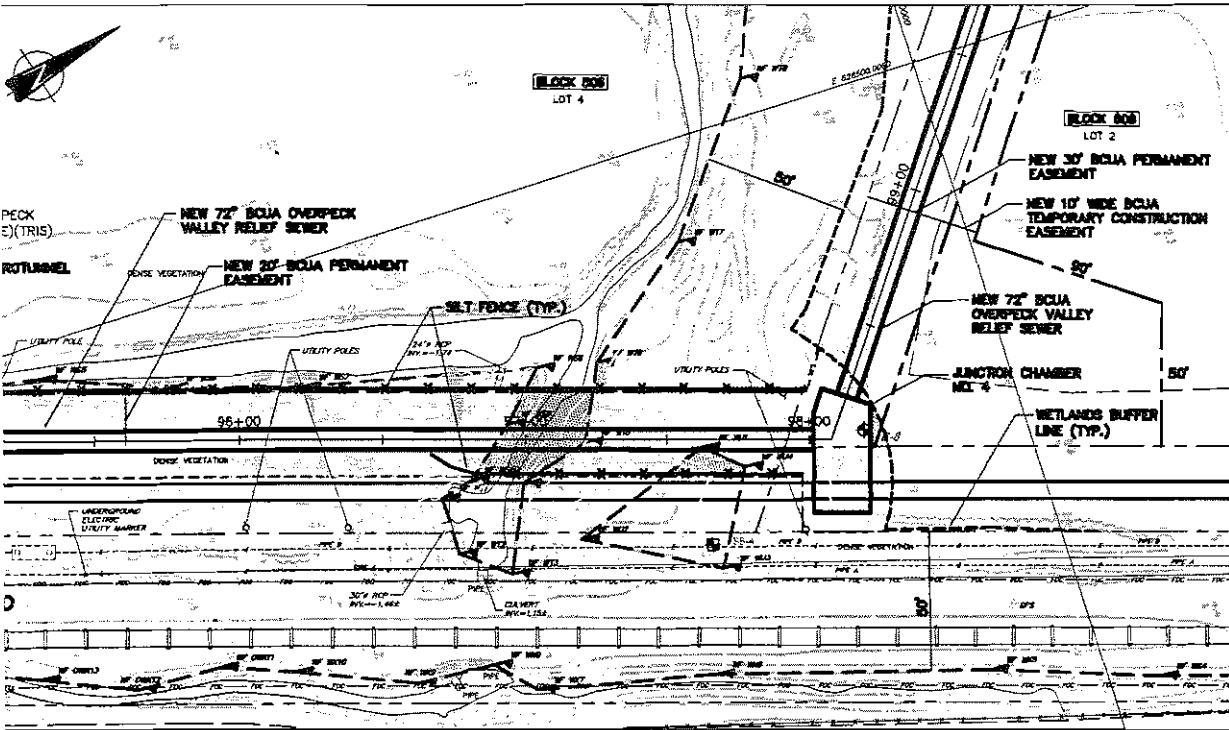
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Revision

Job No.	No.
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B/O	1st

Contract No.

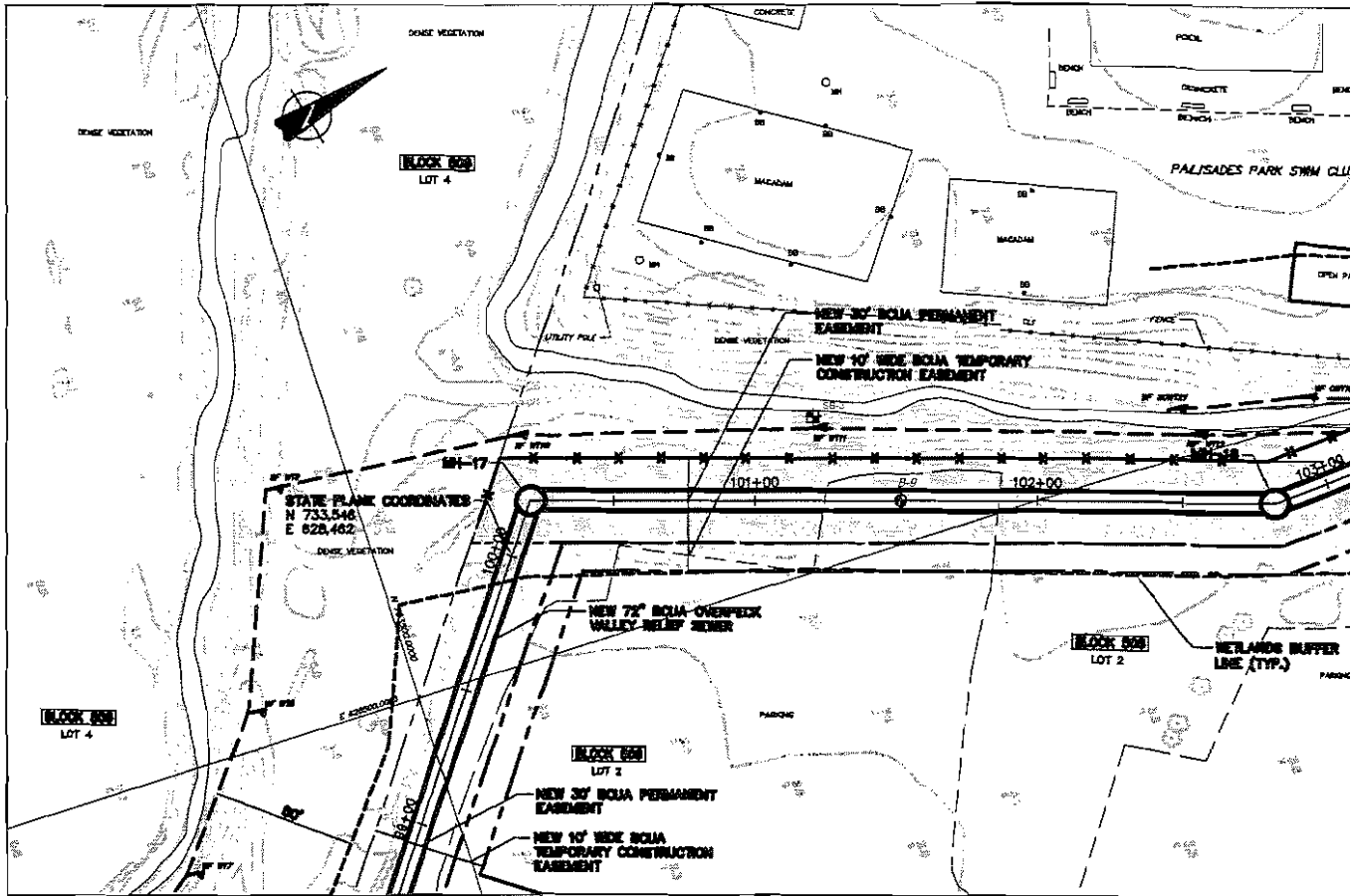




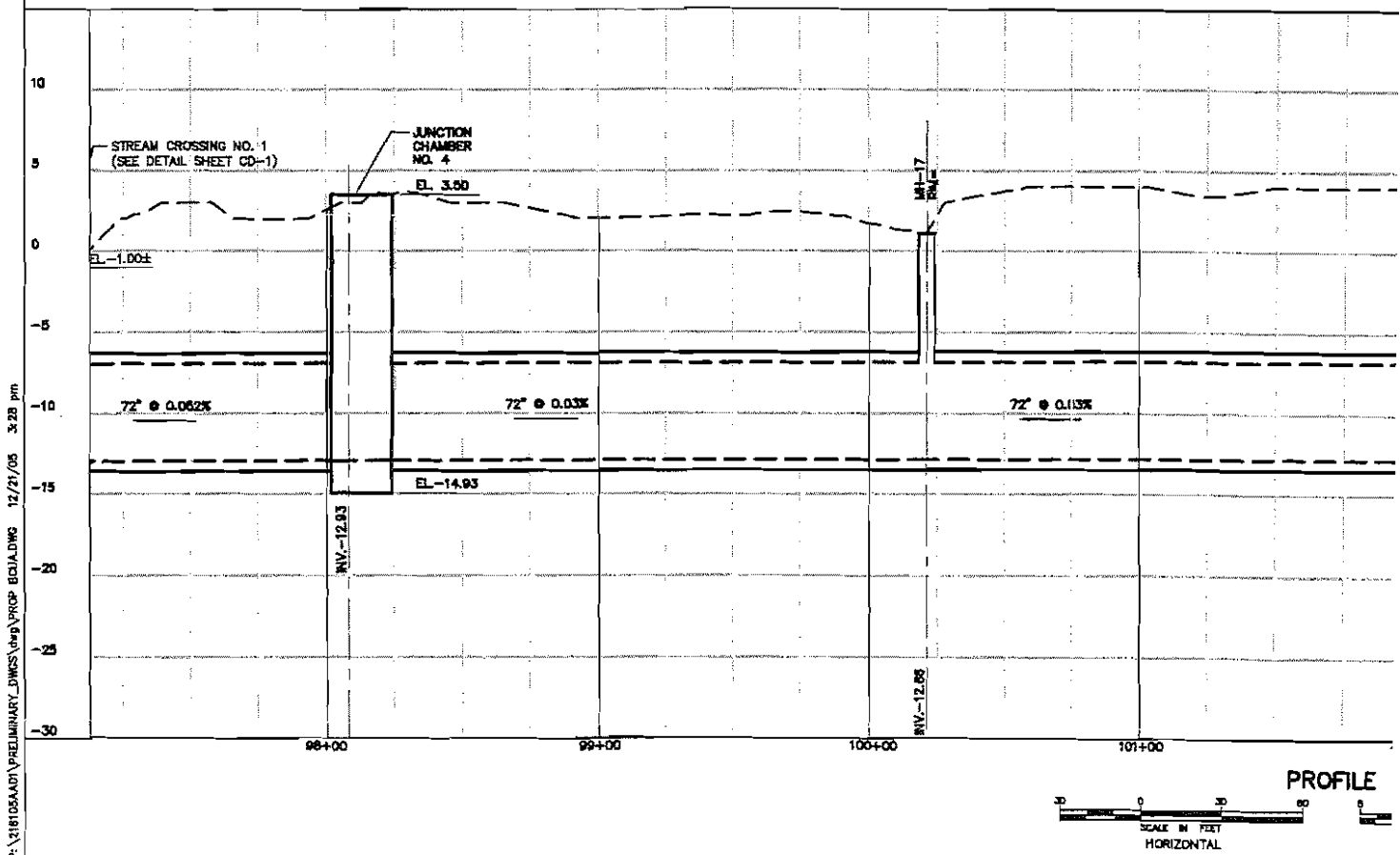
<p><b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY</p> <p><b>OVERPECK VALLEY RELIEF SEWER</b></p> <p><b>PLAN AND PROFILE</b></p>		<p><b>Hatch Mott MacDonald</b> Certificate No. 246A28075000 27 Blacker Street Millburn, New Jersey 07041</p>		<p><b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 88960 <i>James E. Farry</i> Date: 1/16/06</p>		<p>Designated JEF</p>	<p>Drawn WAH</p>	<p>Checked JEF</p>	<p>Approved JEF</p>	<p>Date</p>	<p>Revision</p>
<p>Job 216105AA01</p>	<p>No. S-13</p>	<p>B/O</p>	<p>Total</p>	<p>Contract No.</p>							

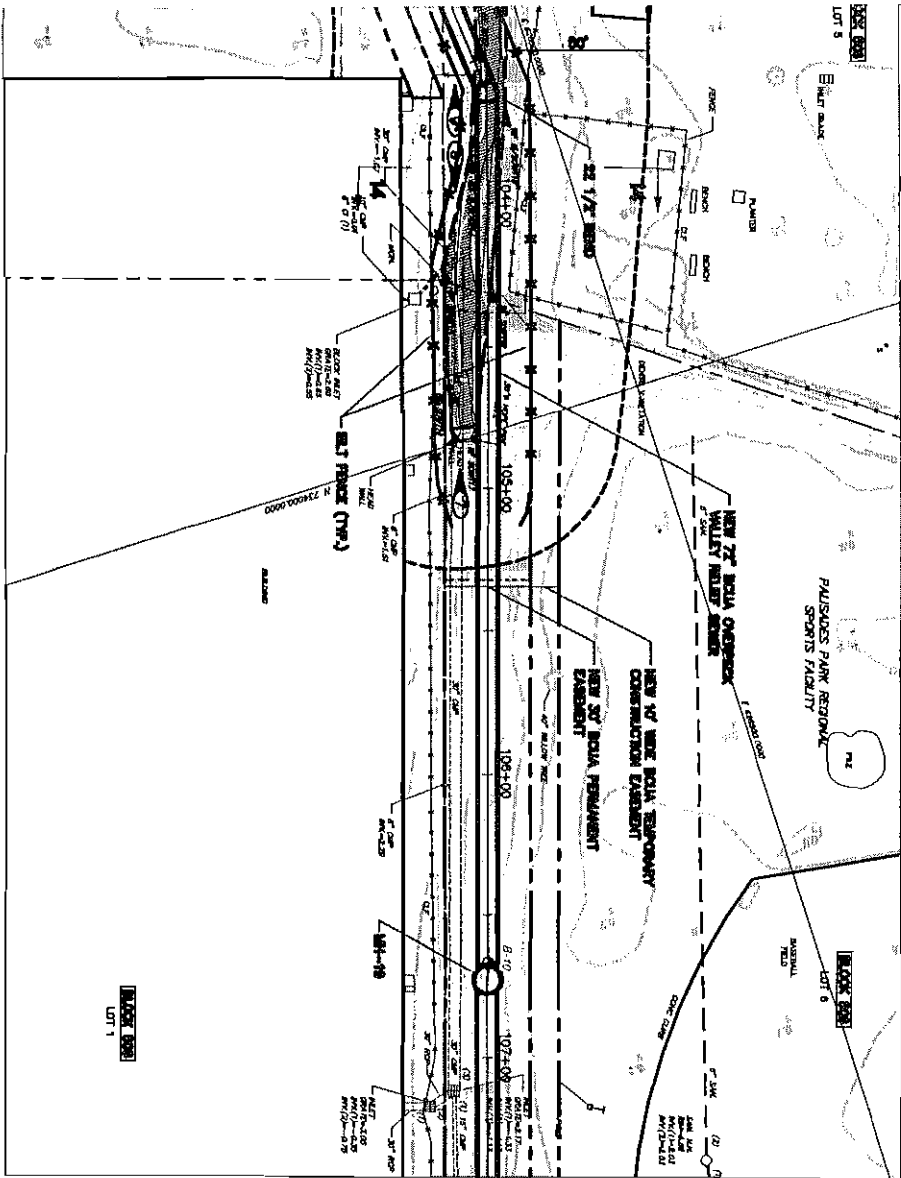
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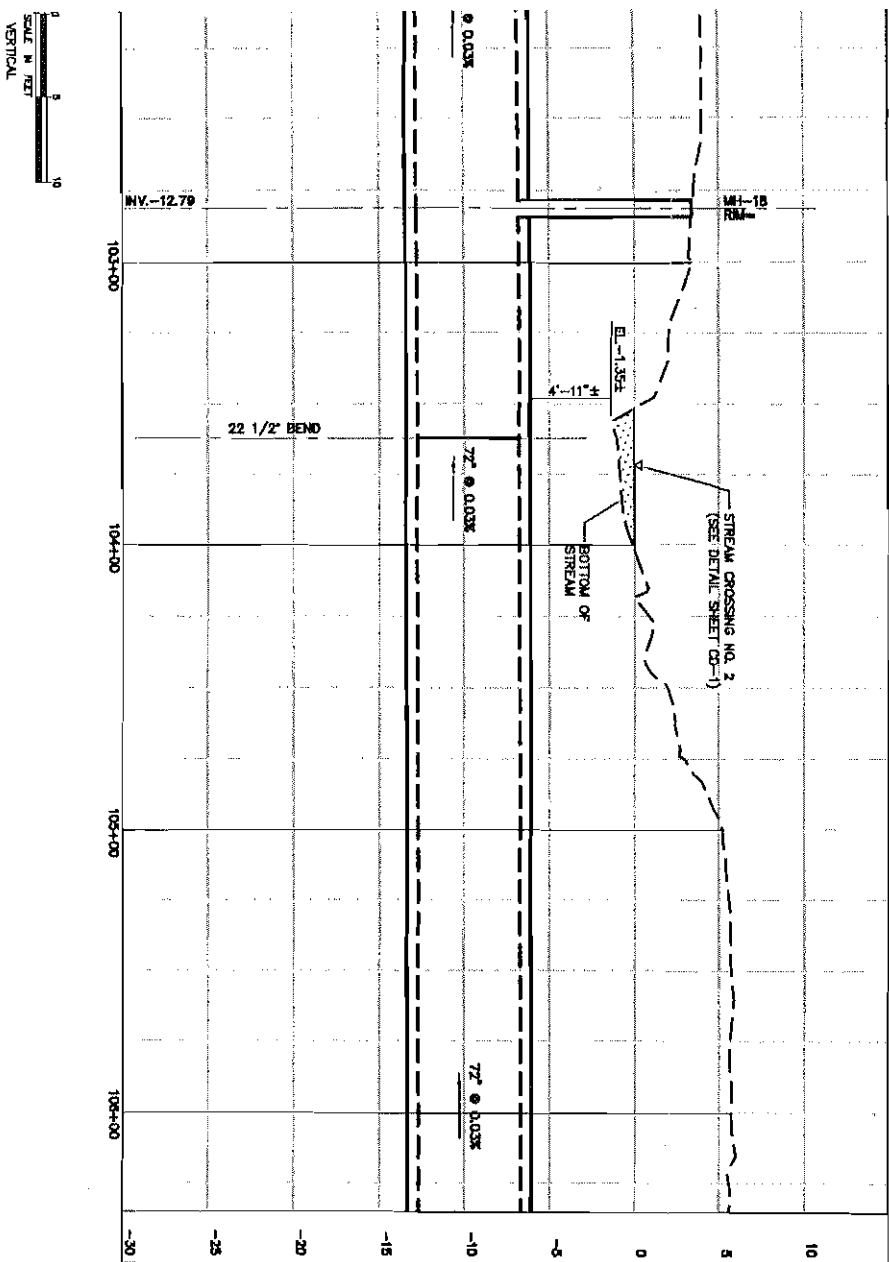


## PLAN





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BERGEN COUNTY UTILITIES AUTHORITY  
BERGEN COUNTY, NEW JERSEY

OVERPECK VALLEY RELIEF SEWER

PLAN AND PROFILE

**Hatch Mott MacDonald**  
Certificate No. 240A28075000

27 Bleeker Street  
Millburn, New Jersey 07041

**JAMES E. FARRY**  
Professional Engineer - N.J. Lic. No. 25889

*James E. Farry* 1/4/06

Designed	Drawn	Checked	Approved	Date
JEF	WAH	JEF		

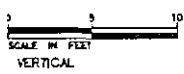
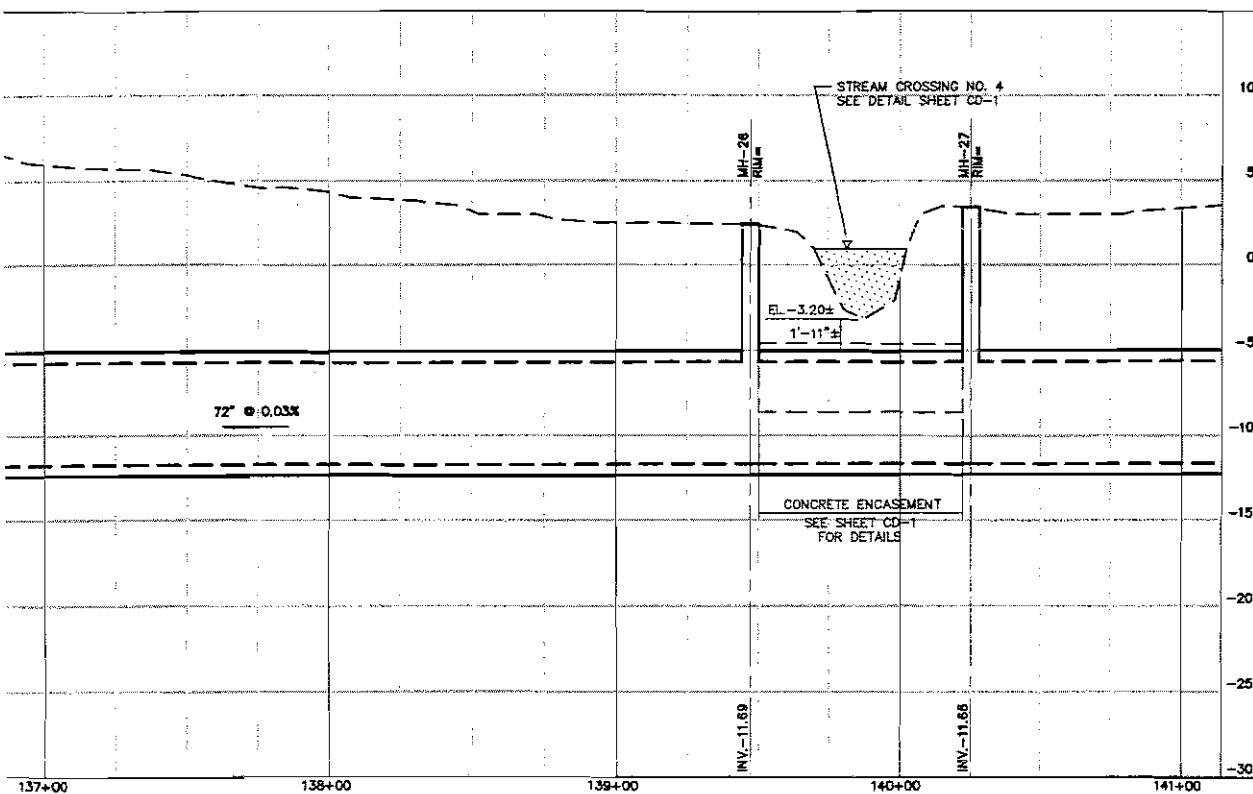
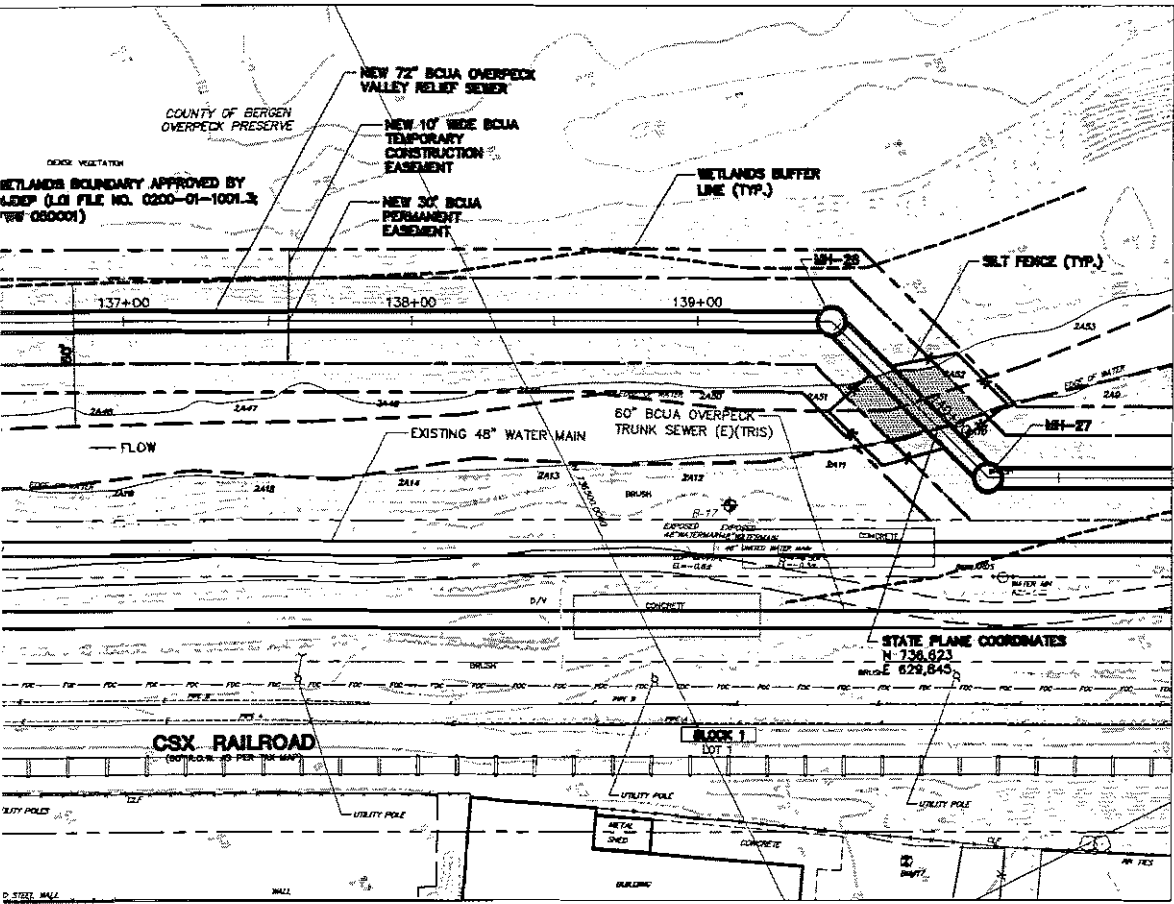
Date Revision

Contract No.

Job	No.
218105A&D	S-14
D/W	Issd

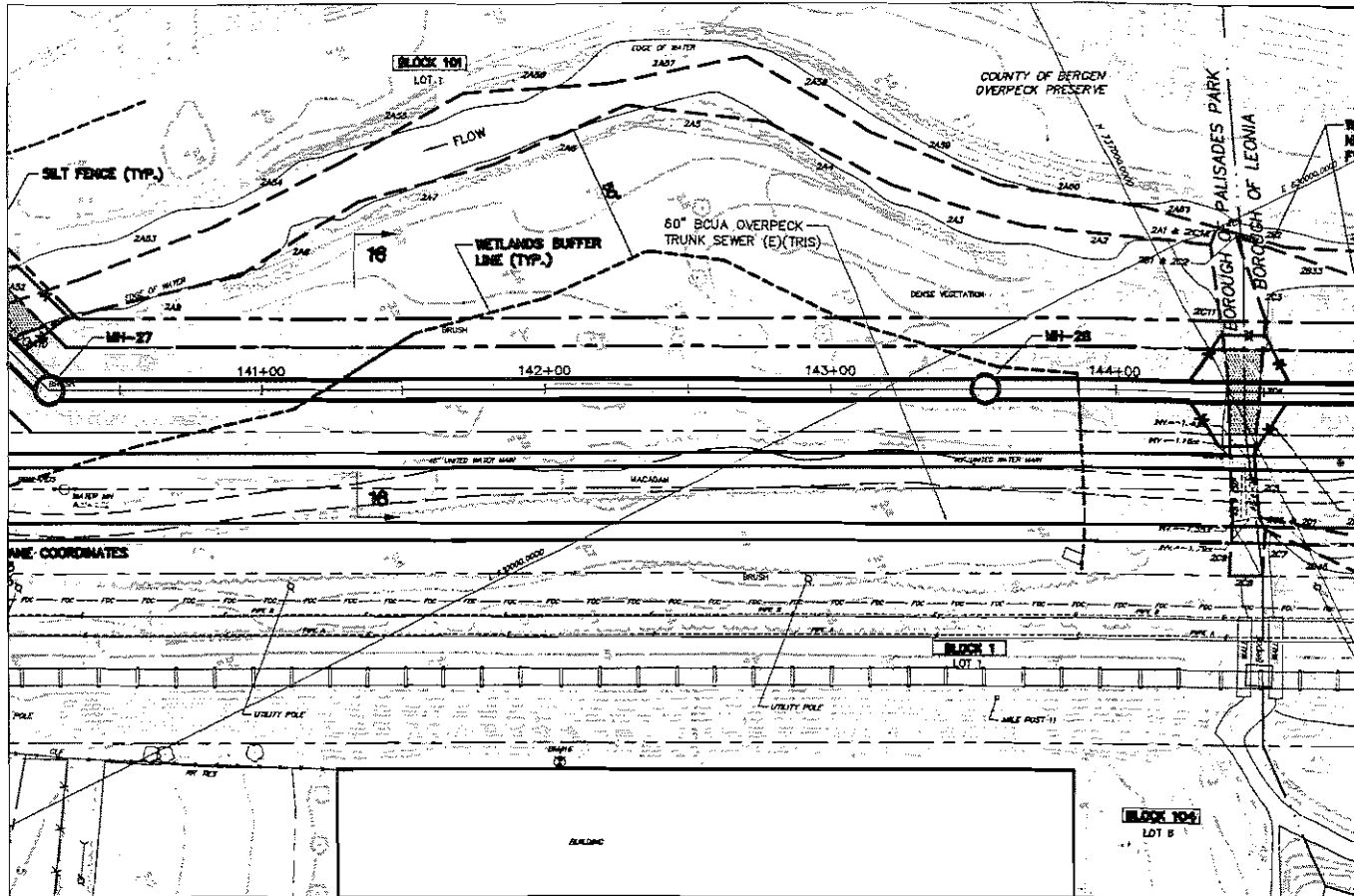


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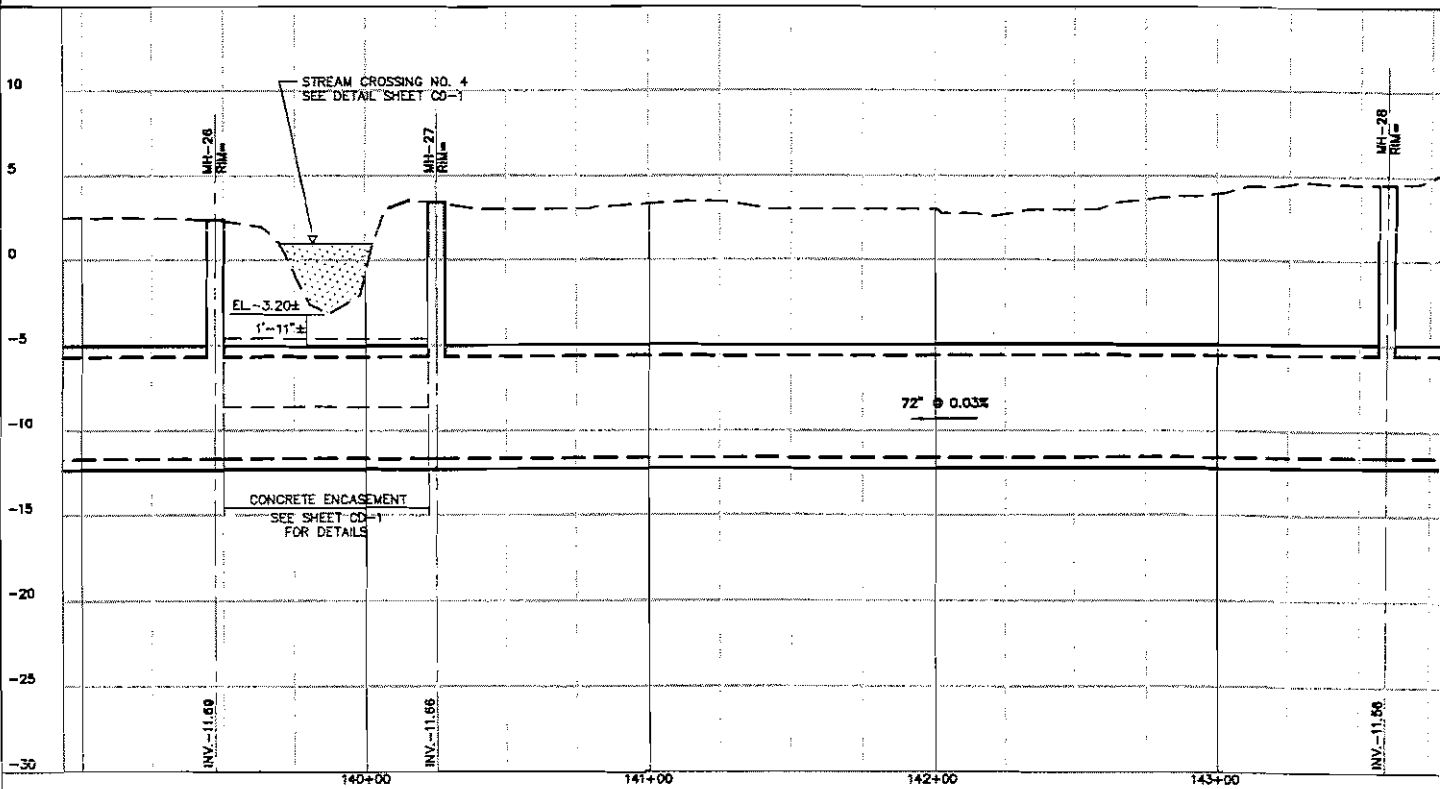


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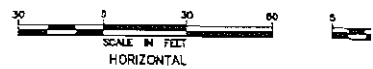
<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 36659 <i>James E. Farry</i> Date: 1/16/06		Date	Revision
		Approved	
<b>Hatch Mott MacDonald</b> Certificate No. 246A280/5000 27 Bleeker Street Millburn, New Jersey 07041	Designated JEF	Drawn WAH	Checked JEF
	<b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> <b>PLAN AND PROFILE</b>		
216105AA01	S-19	B/O	Total

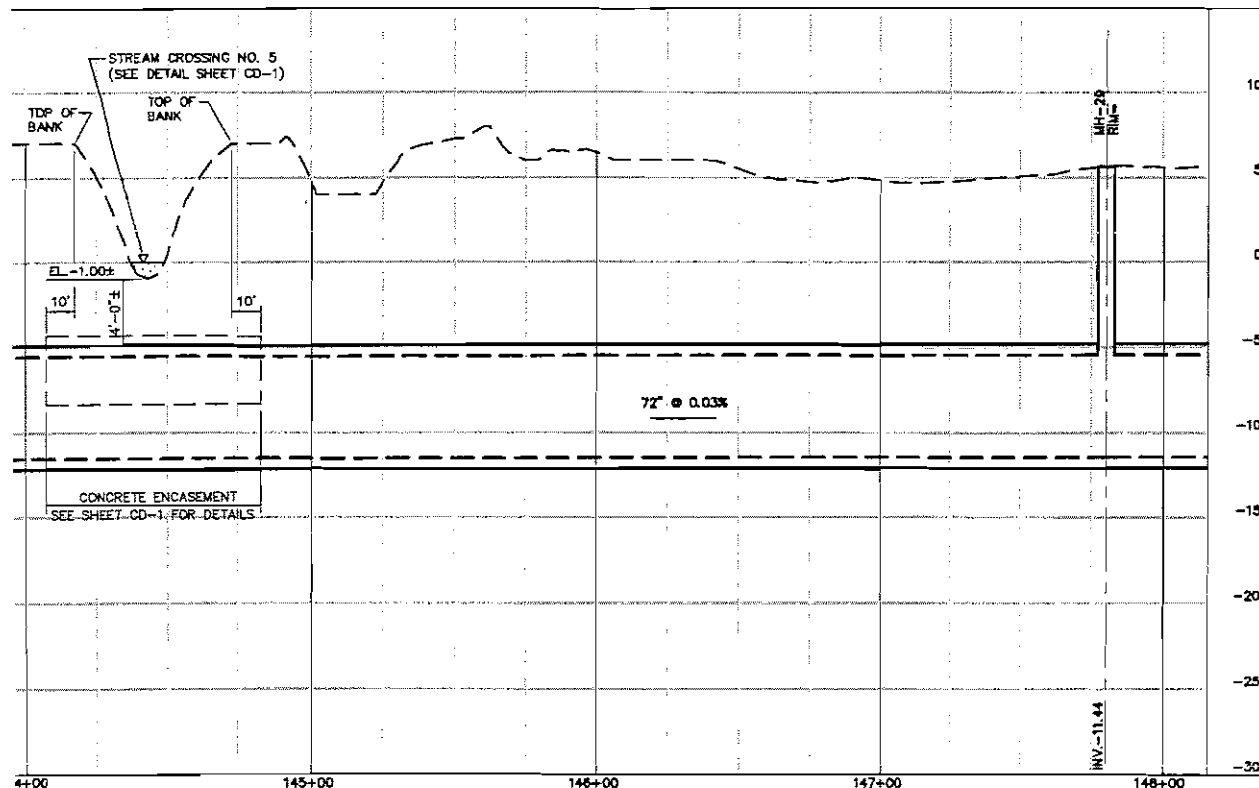
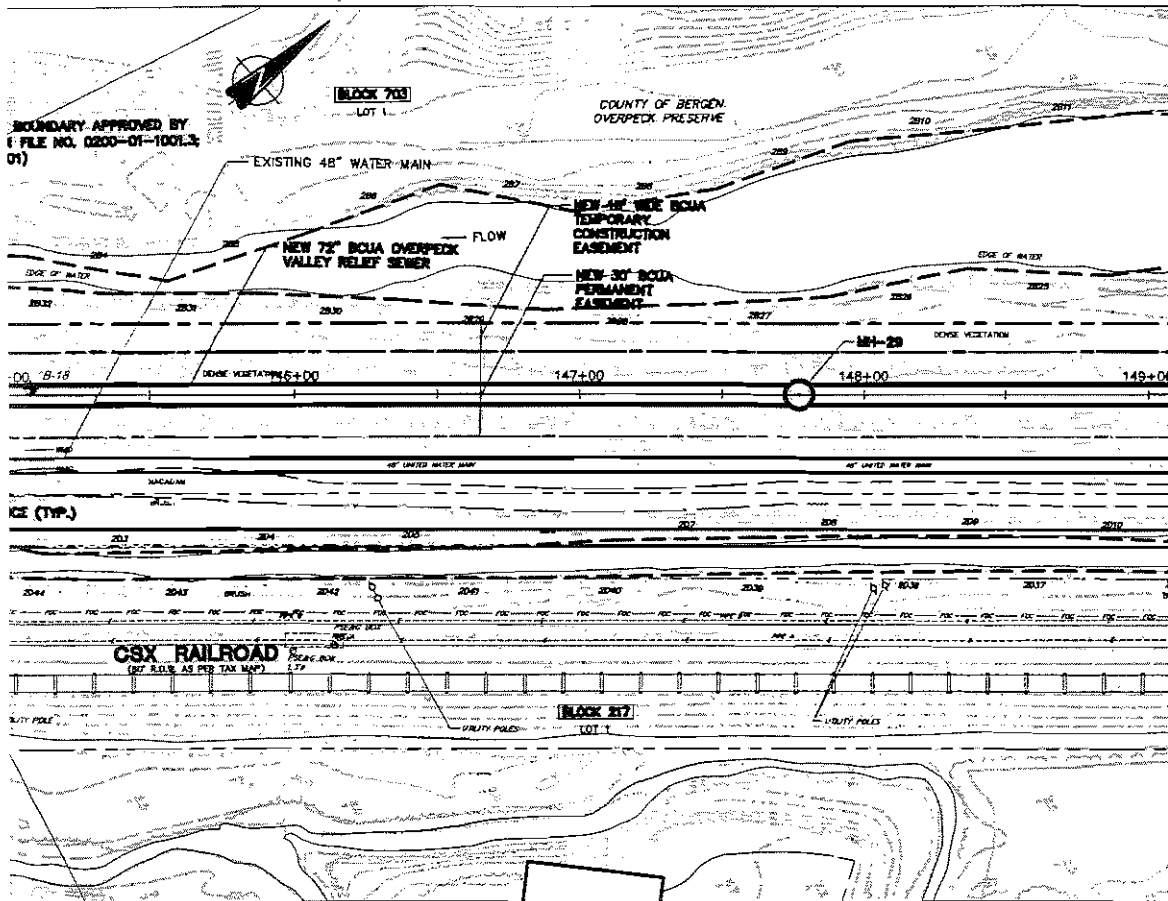


## PLAN



## PROFILE





<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 38889 <i>James E. Farry</i> Date: 1/16/16		Date	
		Approved JEF	Date
<b>Hatch Mott MacDonald</b> Certificate No. 246A28075000 27 Blaeser Street Millburn, New Jersey 07041		Date	
<b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> <b>PLAN AND PROFILE</b>			
Job 216105AA01	No. S-20	B/O Total	Revision

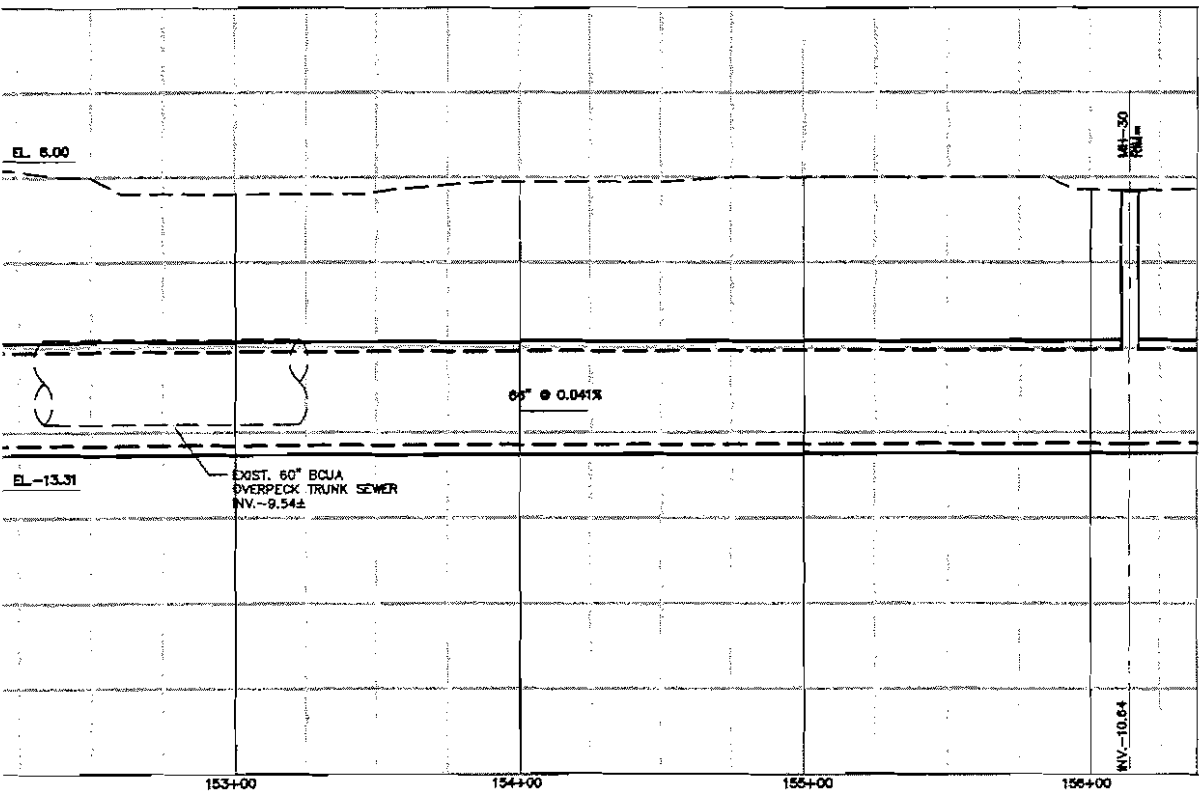
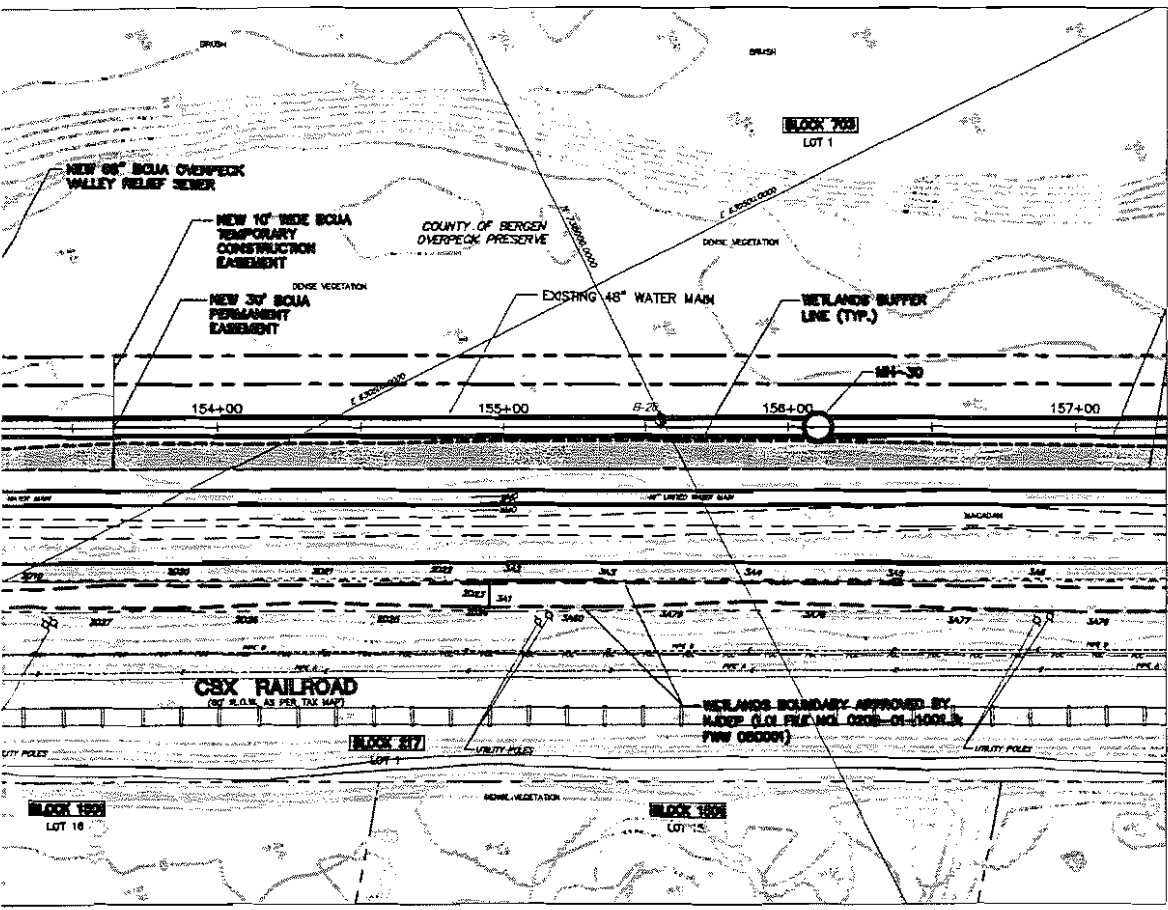
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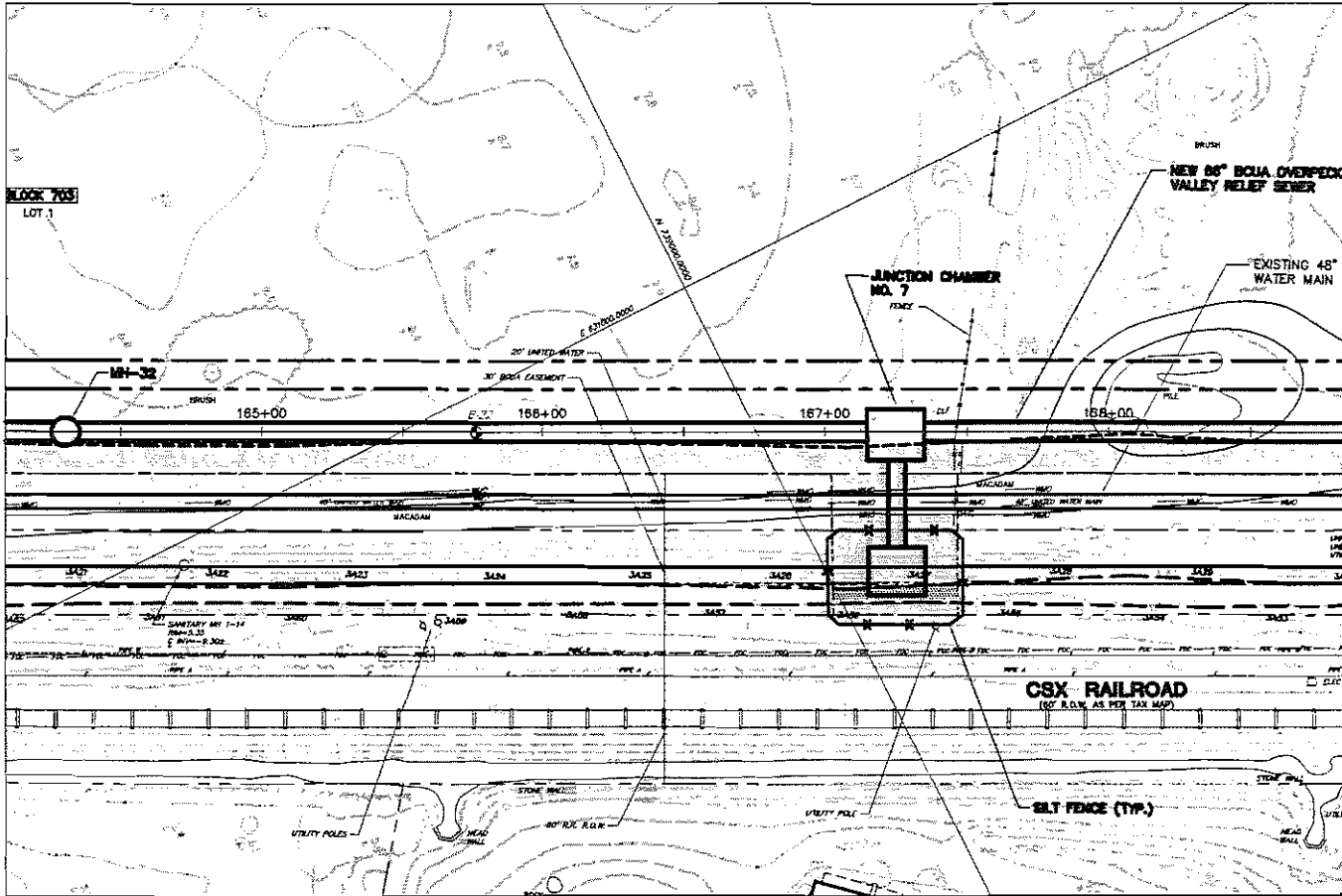


SCALE IN FEET  
VERTICAL

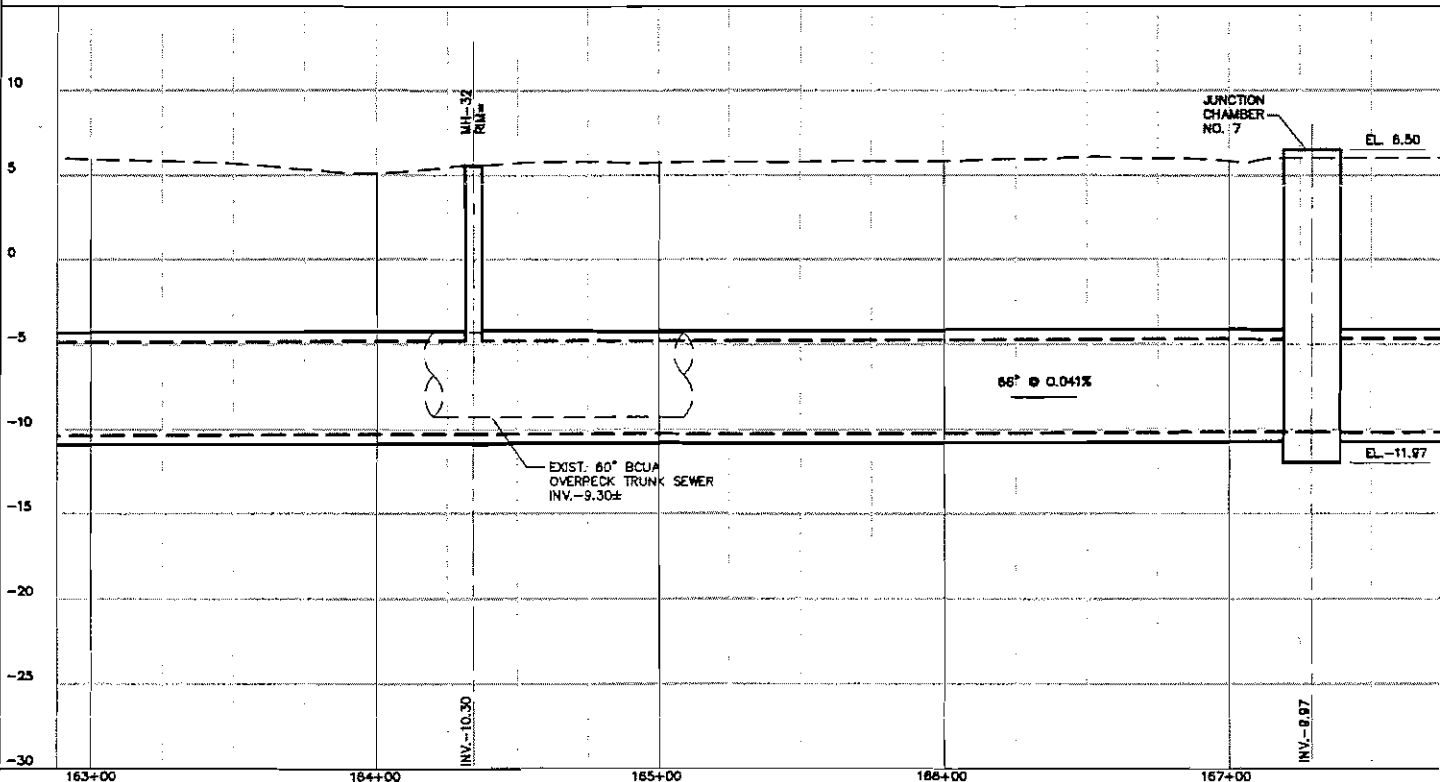
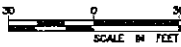
<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 20949 <i>James E. Farry</i> 1/6/86 Date		Designated JEF Drawn WAF Checked JEF Approved Date		Revision Date
<b>Hatch Mott MacDonald</b> Certificate No. 246238075000 27 Bleeker Street Millburn, New Jersey 07041		<b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> <b>PLAN AND PROFILE</b>		
Job Z16105AA01	No. S-21	B/O Total		

Contract No.

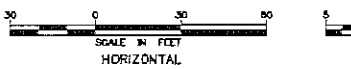
18 OF 411



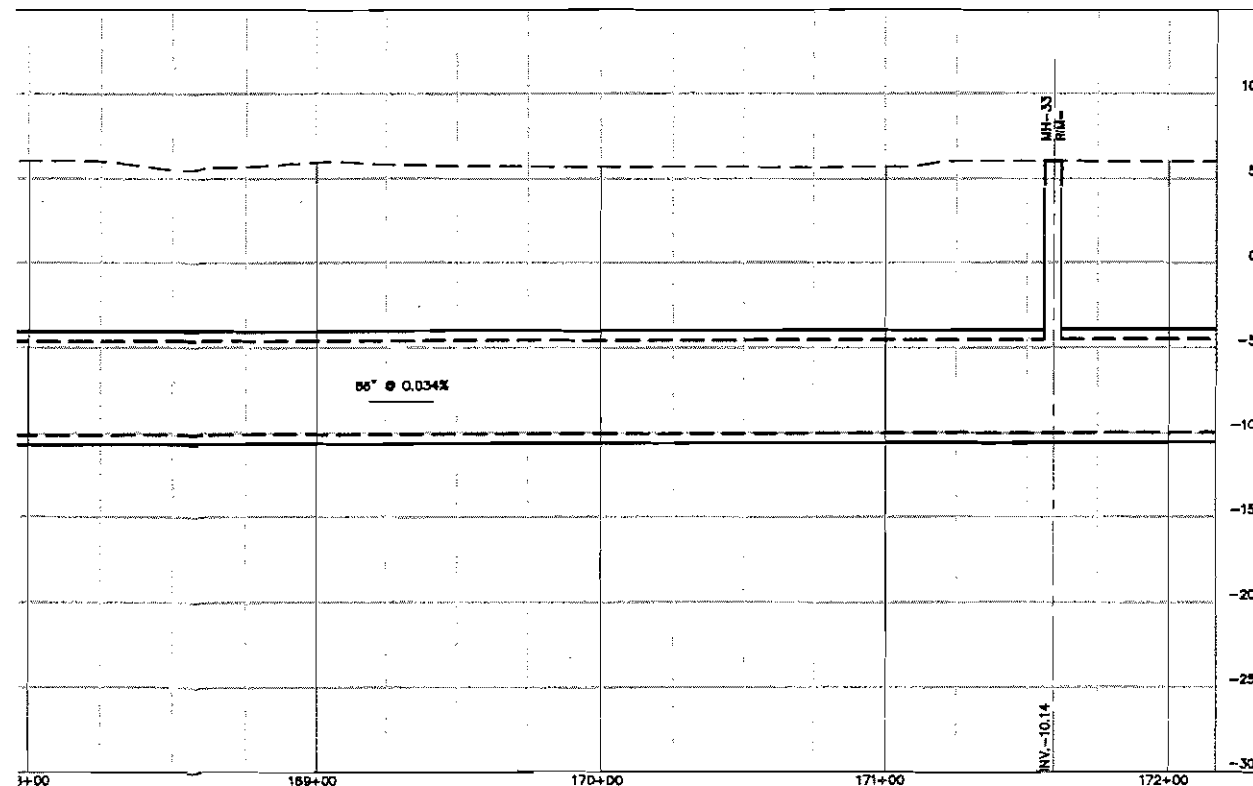
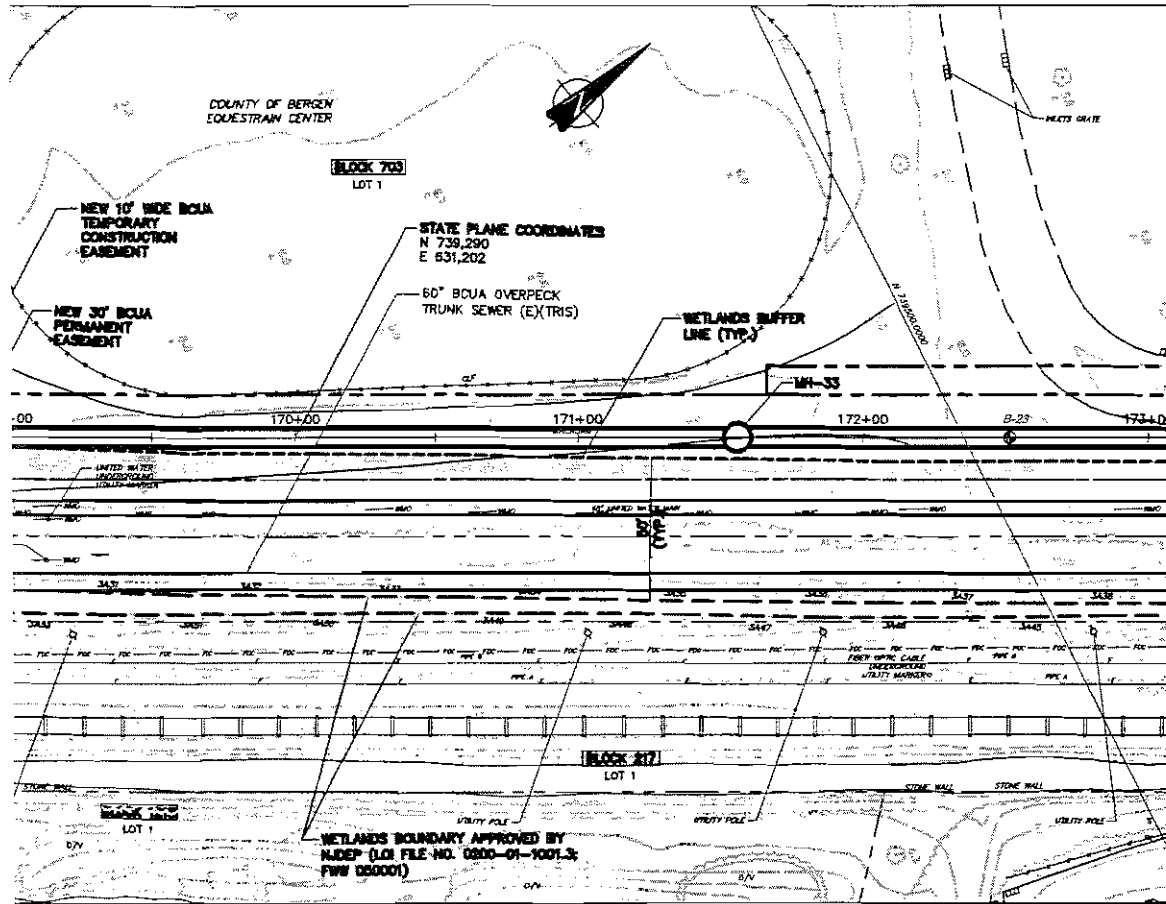
PLAN



PROFILE



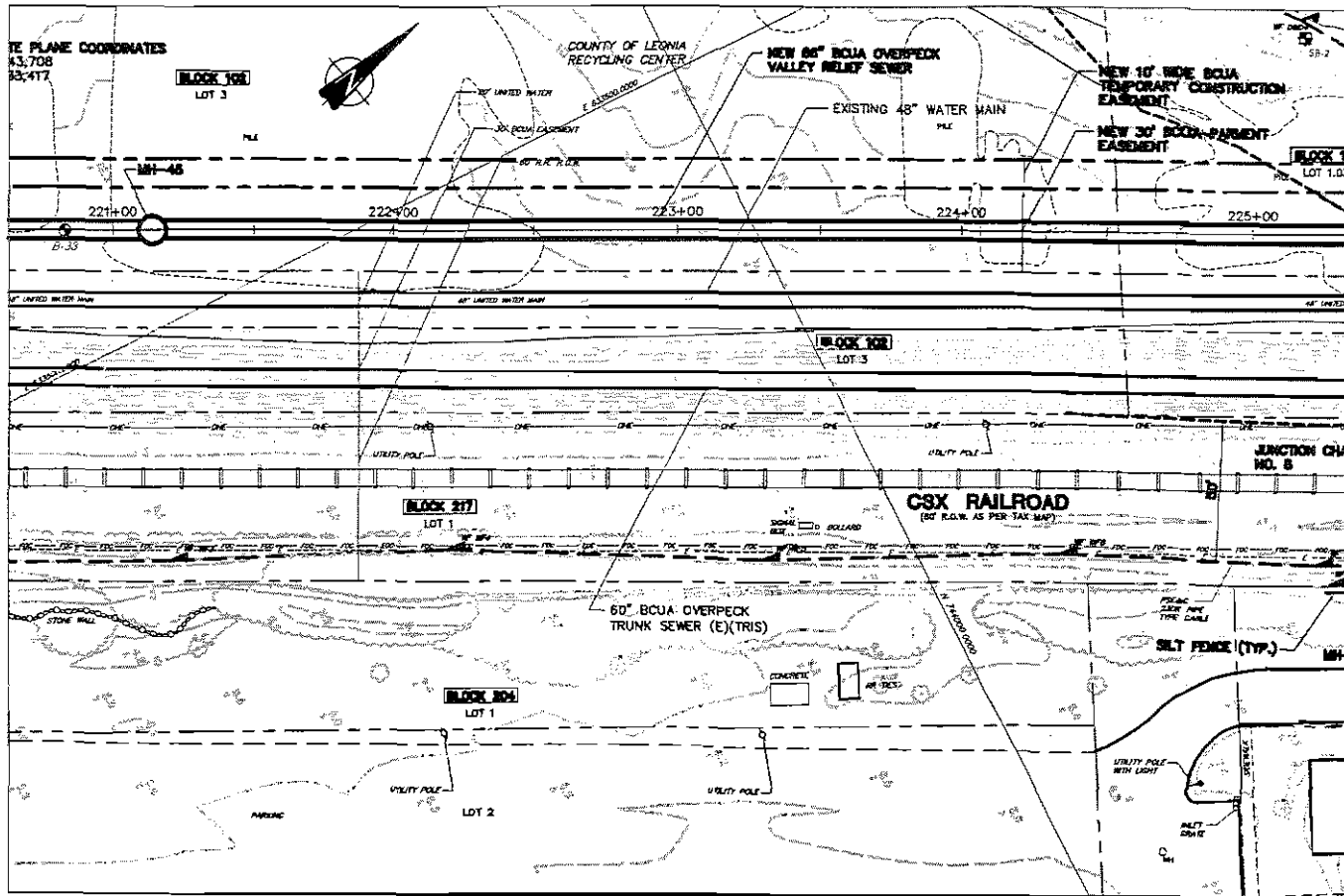
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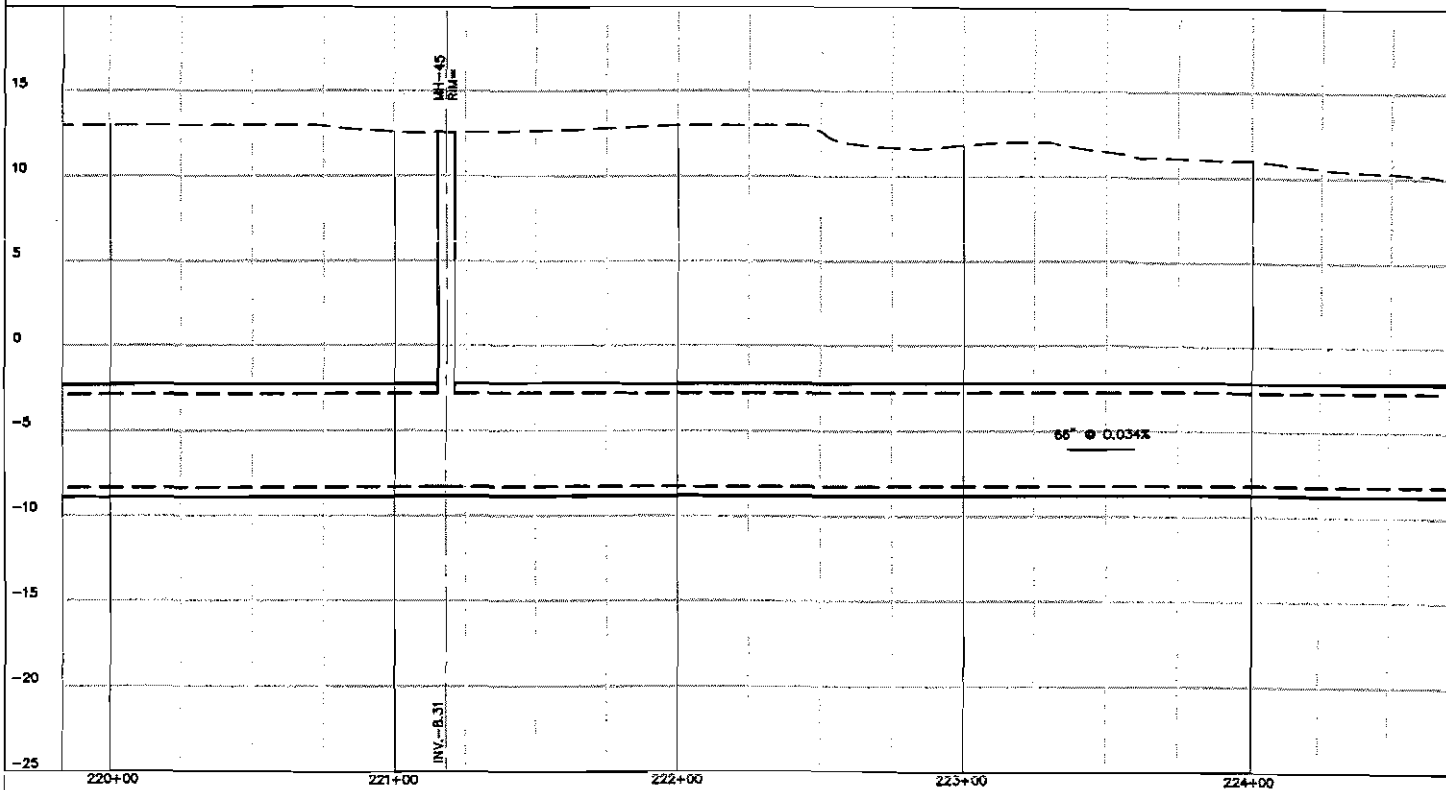
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FEET  
CRITICAL

2008 44

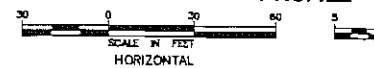
<b>Hatch Mott MacDonald</b> Certificate No. 246A28075000 27 Bleeker Street Millburn, New Jersey 07041		Date: <i>1/16/08</i>	
		Approved: <i>J. E. Farry</i>	Date:
DESIGNED: JEF CHECKED: JEF DRAWN: WAF		DATE:	
BERGEN COUNTY UTILITIES AUTHORITY BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> PLAN AND PROFILE			
Job: 216105AA01	No. S-23	Revision:	

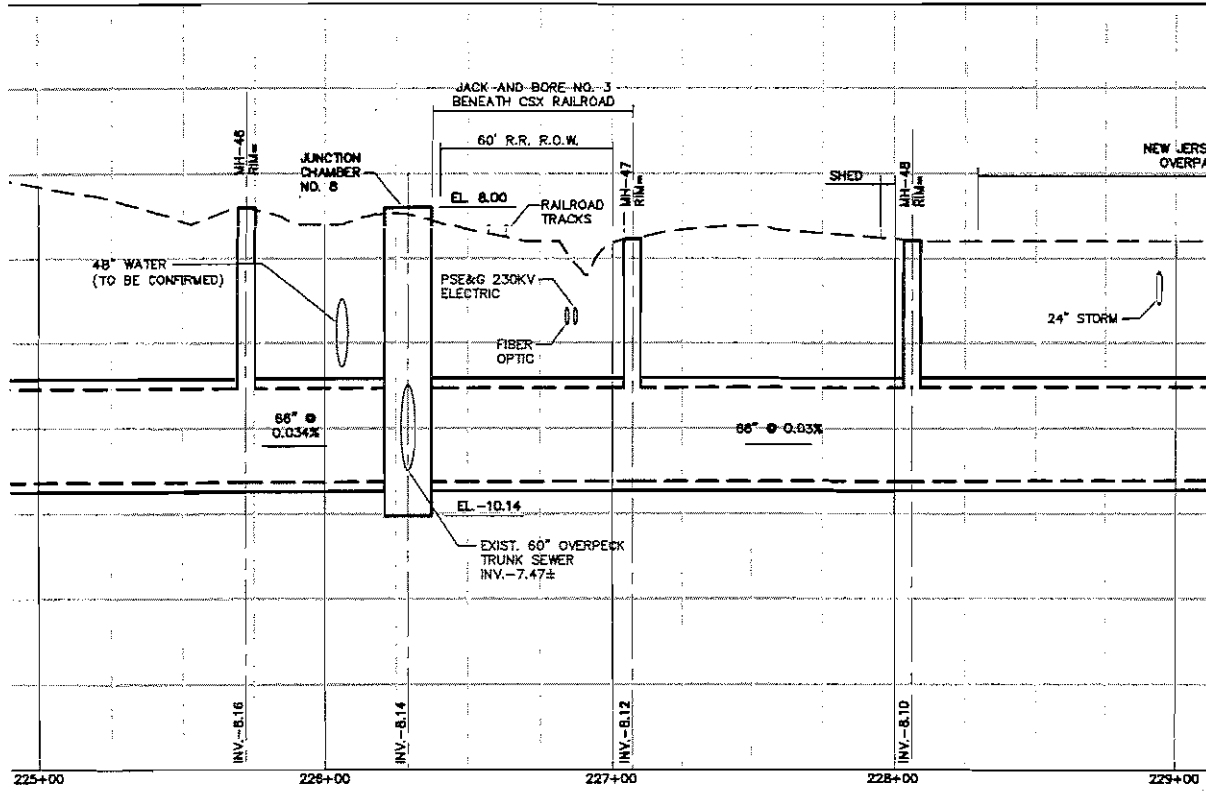
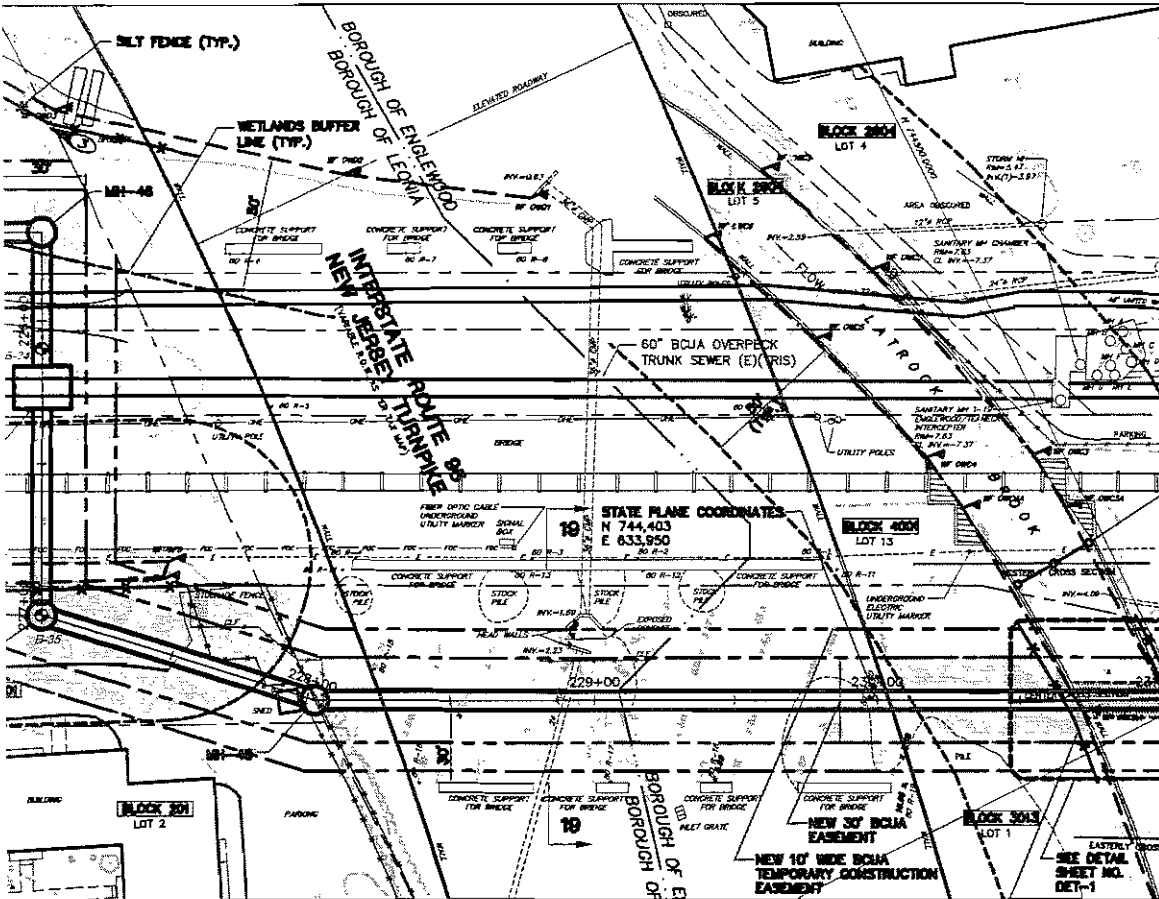


## PLAN



## PROFILE

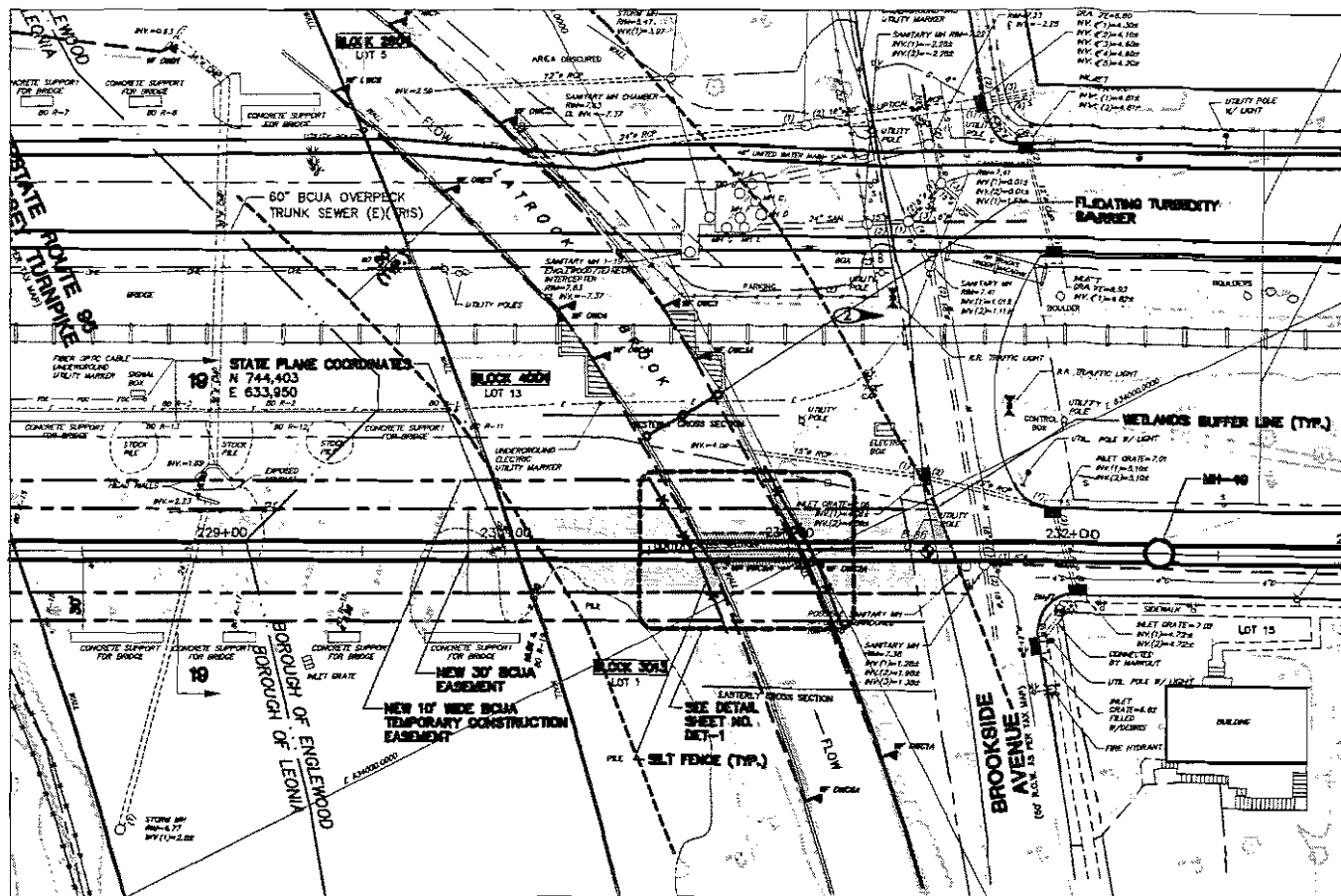




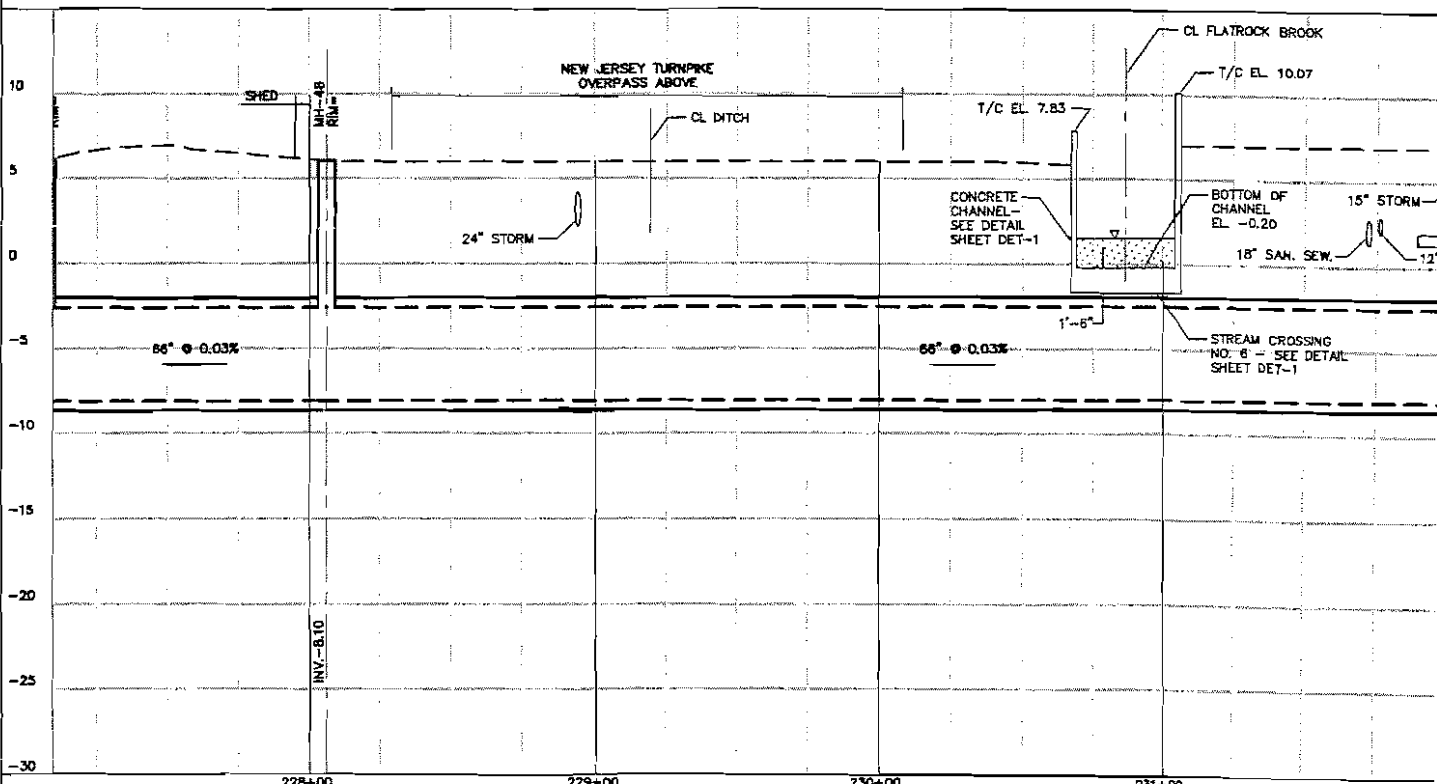
**NOTE:**  
LOCATION OF PROPOSED SEWER LINE CROSSING OF  
THE RAILROAD IS 450' SOUTH OF THE INTERSECTION  
WITH CEDAR LANE IN ENGLEWOOD.

<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 28000 <i>James E. Farry</i> Date: 10/10/06		Revision
<b>Hatch Mott MacDonald</b> Certificate No. 24GA28075000 27 Blacker Street Millburn, New Jersey 07041		Date
Designed JEF	Drawn WAH	Checked JEF
<b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> <b>PLAN AND PROFILE</b>		Approved Date 
Job 216105AAA01	No. S-30	B/O Total
Contract No.		

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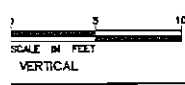
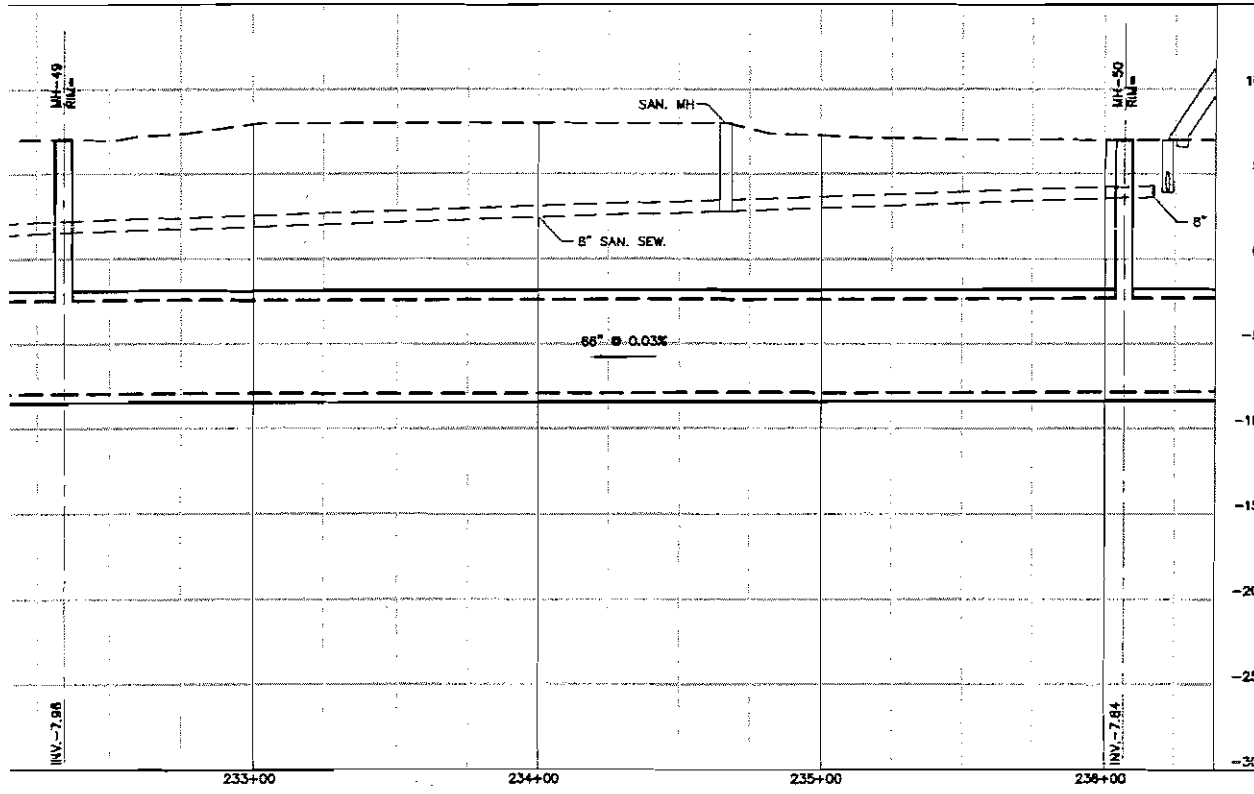
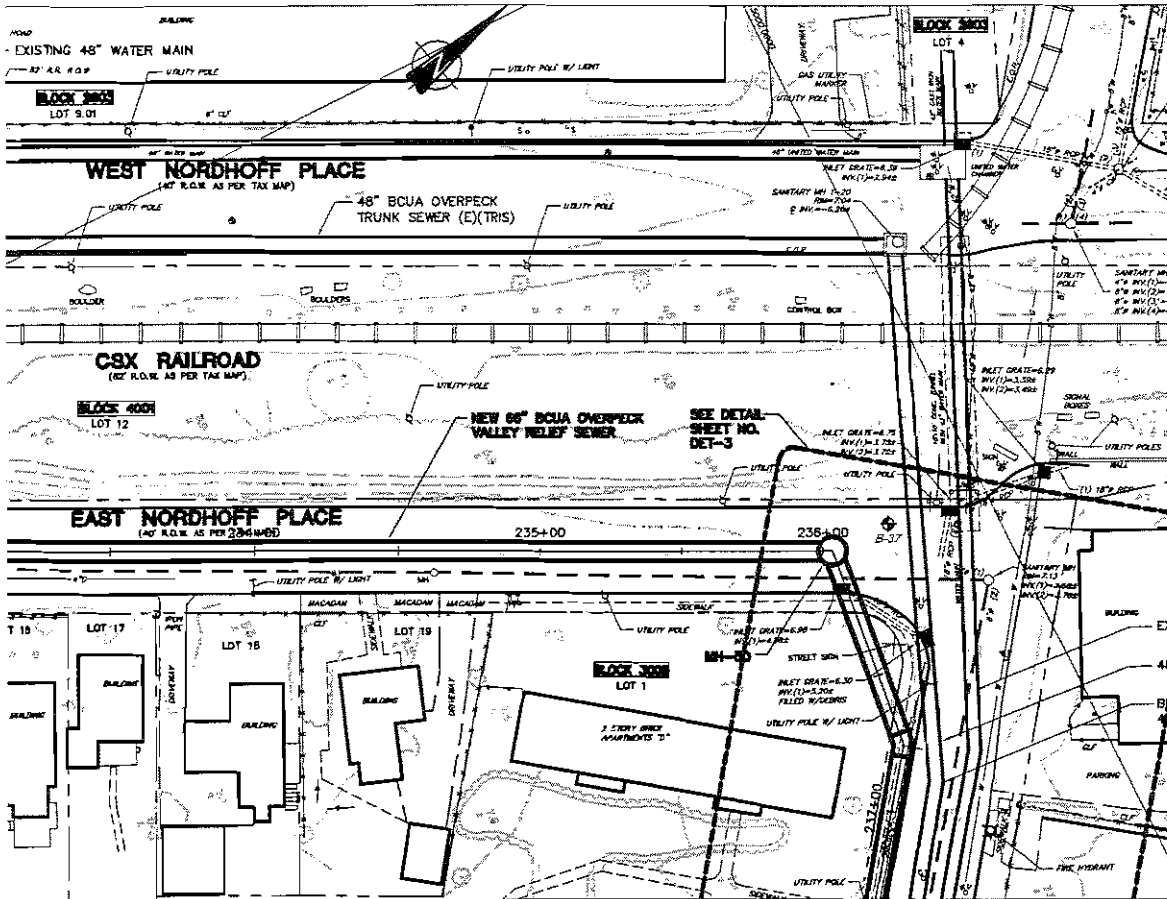


PLAN



PROFILE

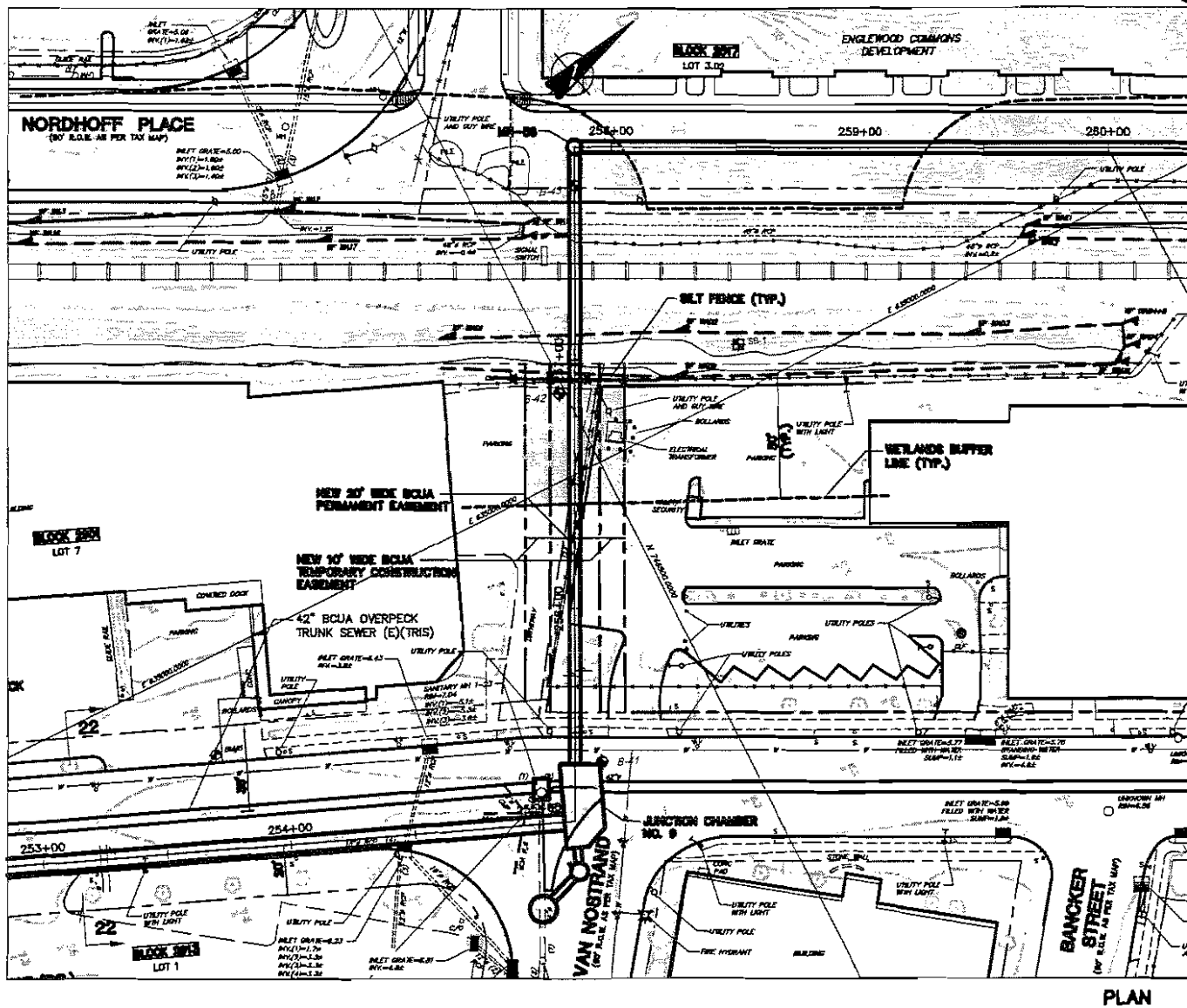




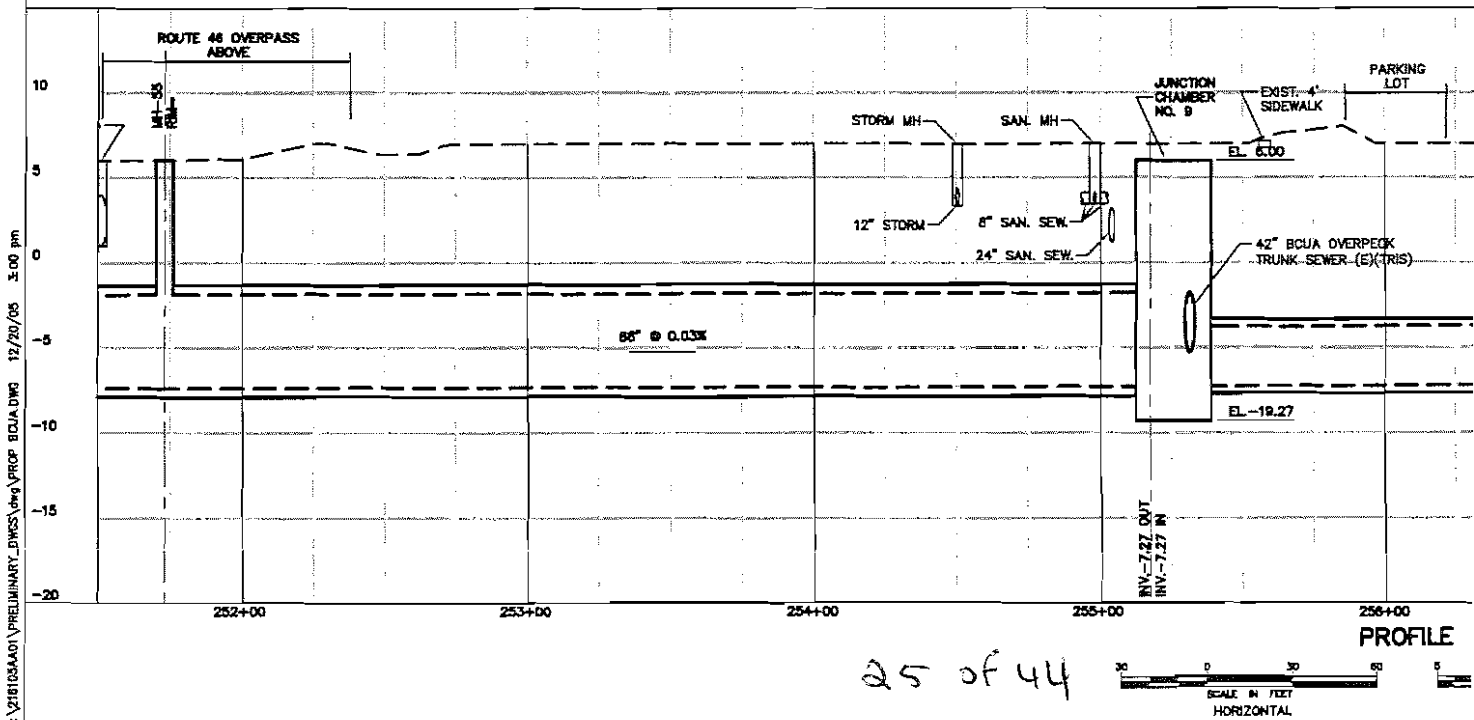
<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 88888 <i>James E. Farry</i>		Date	
Checked JEF	Approved <i>James E. Farry</i>	Date	Revision
<b>Hatch Mott MacDonald</b> Certificate No. 240A28075000 27 Bleeker Street Millburn, New Jersey 07041			
<b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> <b>PLAN AND PROFILE</b>			
Job 216105AA01	No. S-31	B/O	Total

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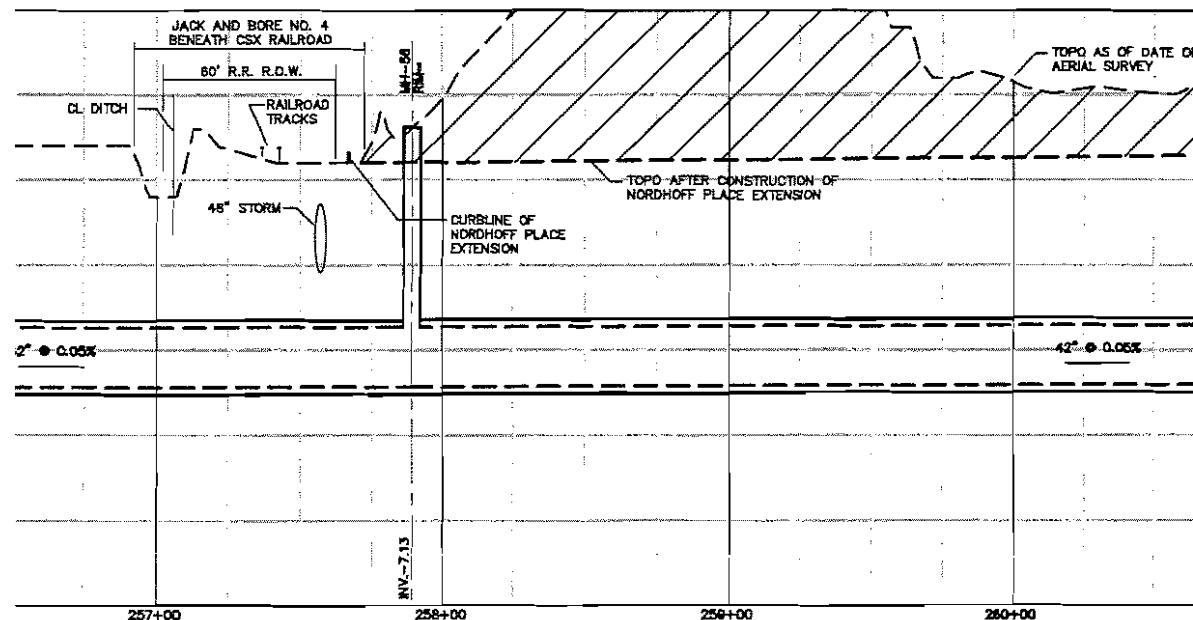
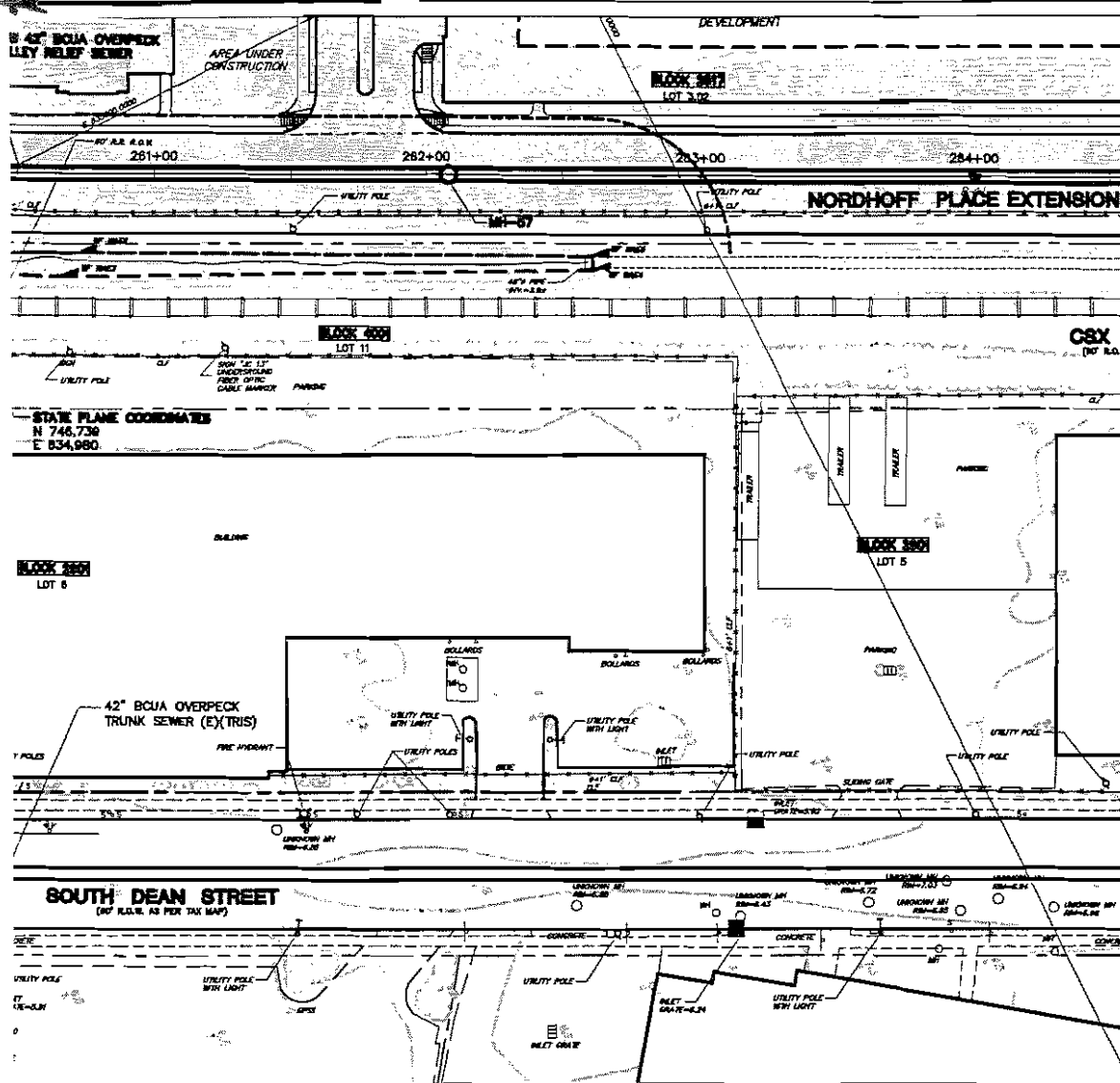


SCALE IN FEET



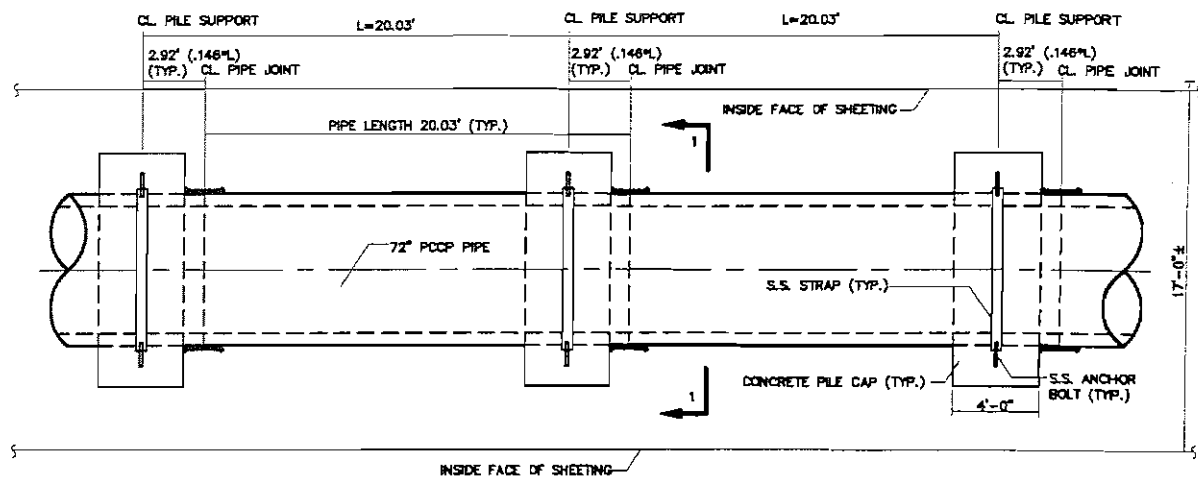
SCALE IN FEET  
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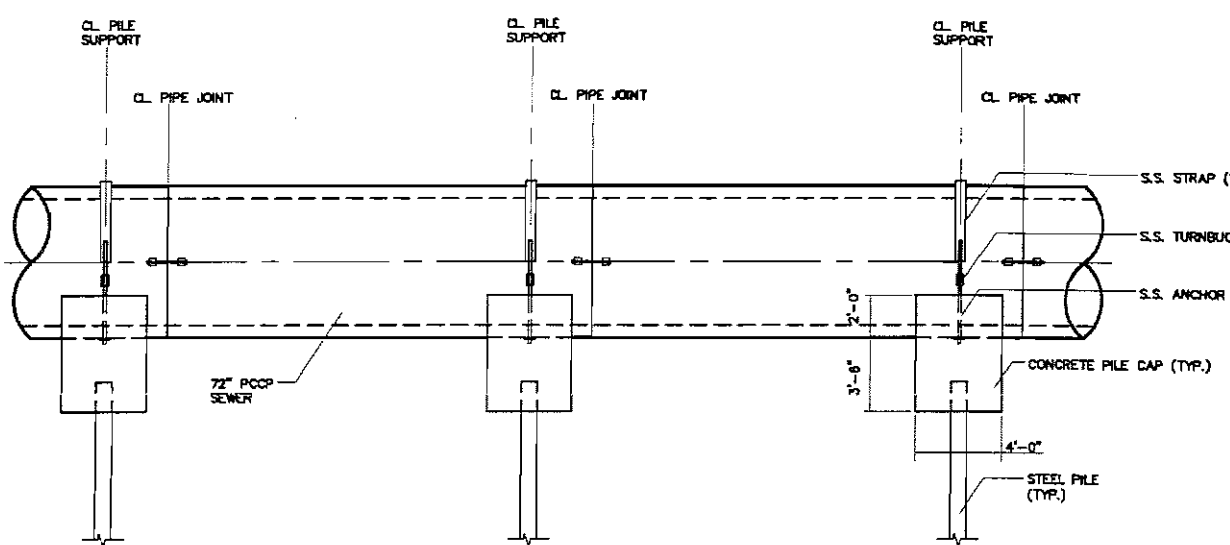


NOTE:  
LOCATION OF PROPOSED SEWER LINE CROSSING OF THE RAILROAD IS 2,400' SOUTH OF THE INTERSECTION WITH WEST FOREST AVENUE IN ENGLEWOOD.

<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 26889 <i>James E. Farry</i> Date <i>11/6/16</i>		Revision
		Date
<b>Hatch Mott MacDonald</b> Certificate No. 24GA2807500 27 Blacker Street Millburn, New Jersey 07041	Designed	JEF
	Drawn	WAH
	Checked	JEF
	Approved	
<b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> <b>PLAN AND PROFILE</b>		
216105AA01	S-34 S/O Total	26 of 4

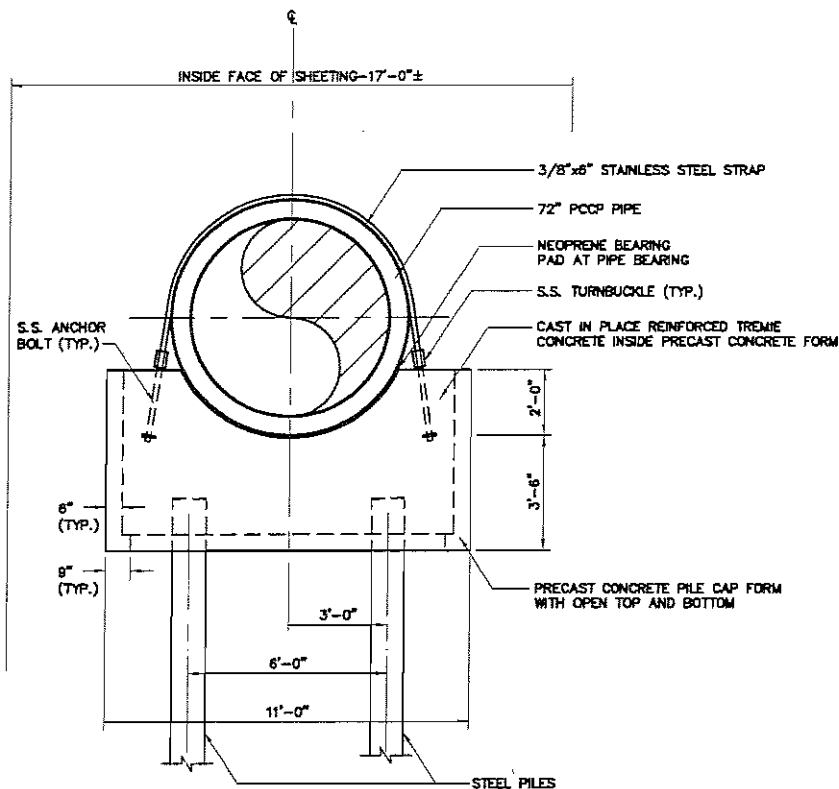


**PLAN**  
SCALE: 1/4" = 1'-0"



**ELEVATION**  
SCALE: 1/4" = 1'-0"

P:\216105\AA01\PRELIMINARY\_DWG\SS\PRV-RC-1.dwg 12/17/05 12:15 PM



**SECTION 1-1**

SCALE: 3/8" = 1'-0"

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**NOTES:**

1. ALL CONCRETE SHALL HAVE  $F_c = 5000$  PSI AT 28 DAYS.
2. ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60.
3. ALL STAINLESS STEEL SHALL BE MARINE GRADE TYPE 316,  $F_y = 42$  KSI.

BERGEN COUNTY UTILITIES AUTHORITY  
BERGEN COUNTY, NEW JERSEY  
OVERPECK VALLEY RELIEF SEWER  
HACKENSACK RIVER CROSSING DETAIL  
PLAN, ELEVATION AND SECTION

**Hatch Mott  
MacDonald**  
Certificate No. 246A28075000

27 Bleeker Street  
Millburn, New Jersey 07041

**JAMES E. FARRY**  
Professional Engineer - N.J. Lic. No. 26980

*James E. Farry*  
Date: 1/14/05

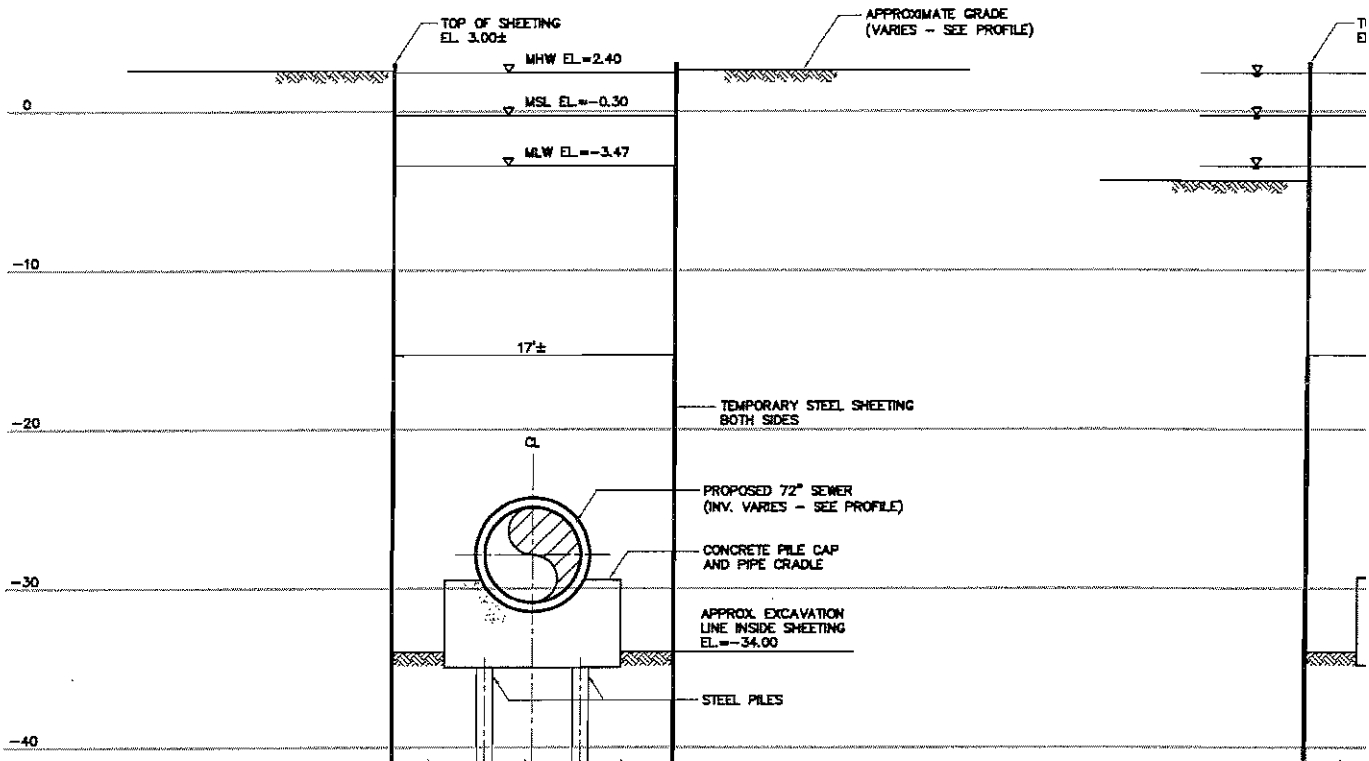
Designed Drawn Checked Approved Date

Revision

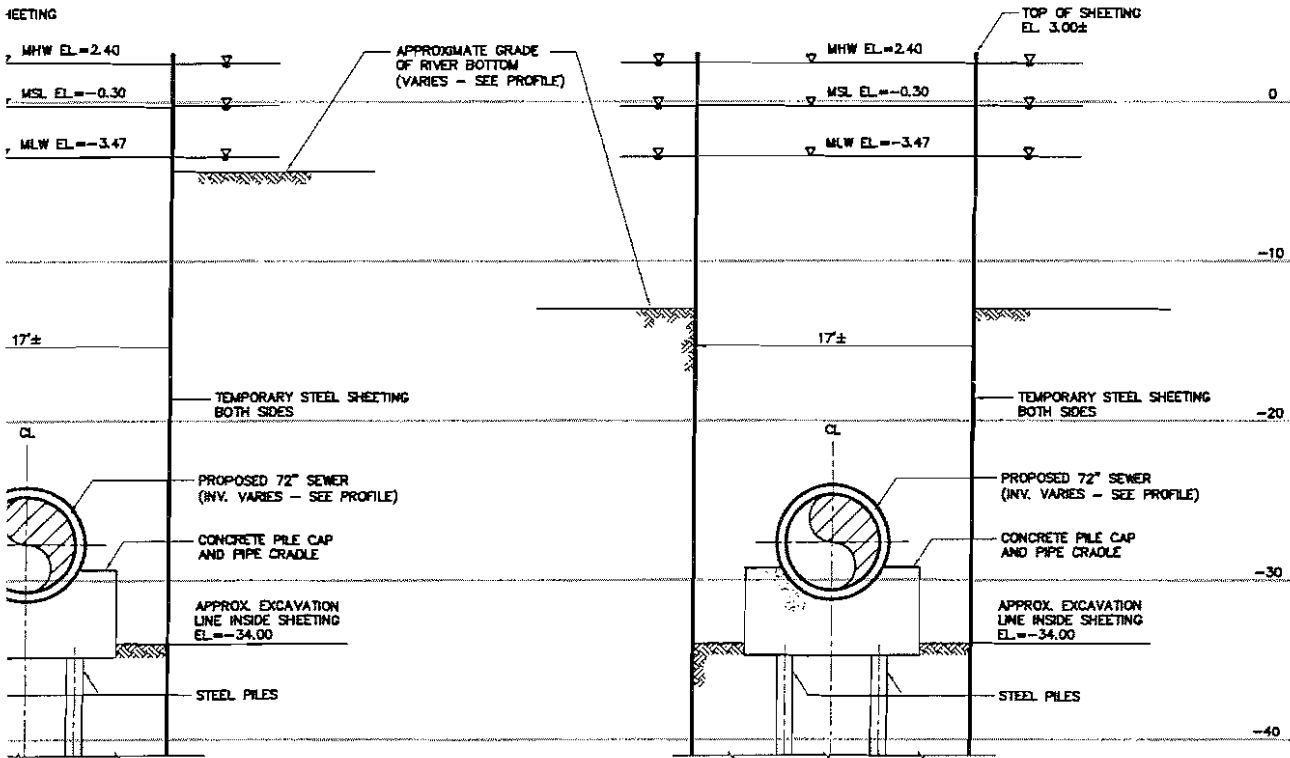
Date

Job  
216105AA01

No.  
RC-1  
B/O Total



SECTION RC-1  
STATION 0+75



ON RC-2  
ON 2+00

SECTION RC-3  
STATION 3+00



30 of 44

JAMES E. FARRY  
Professional Engineer - N.J. Lic. No. 26666

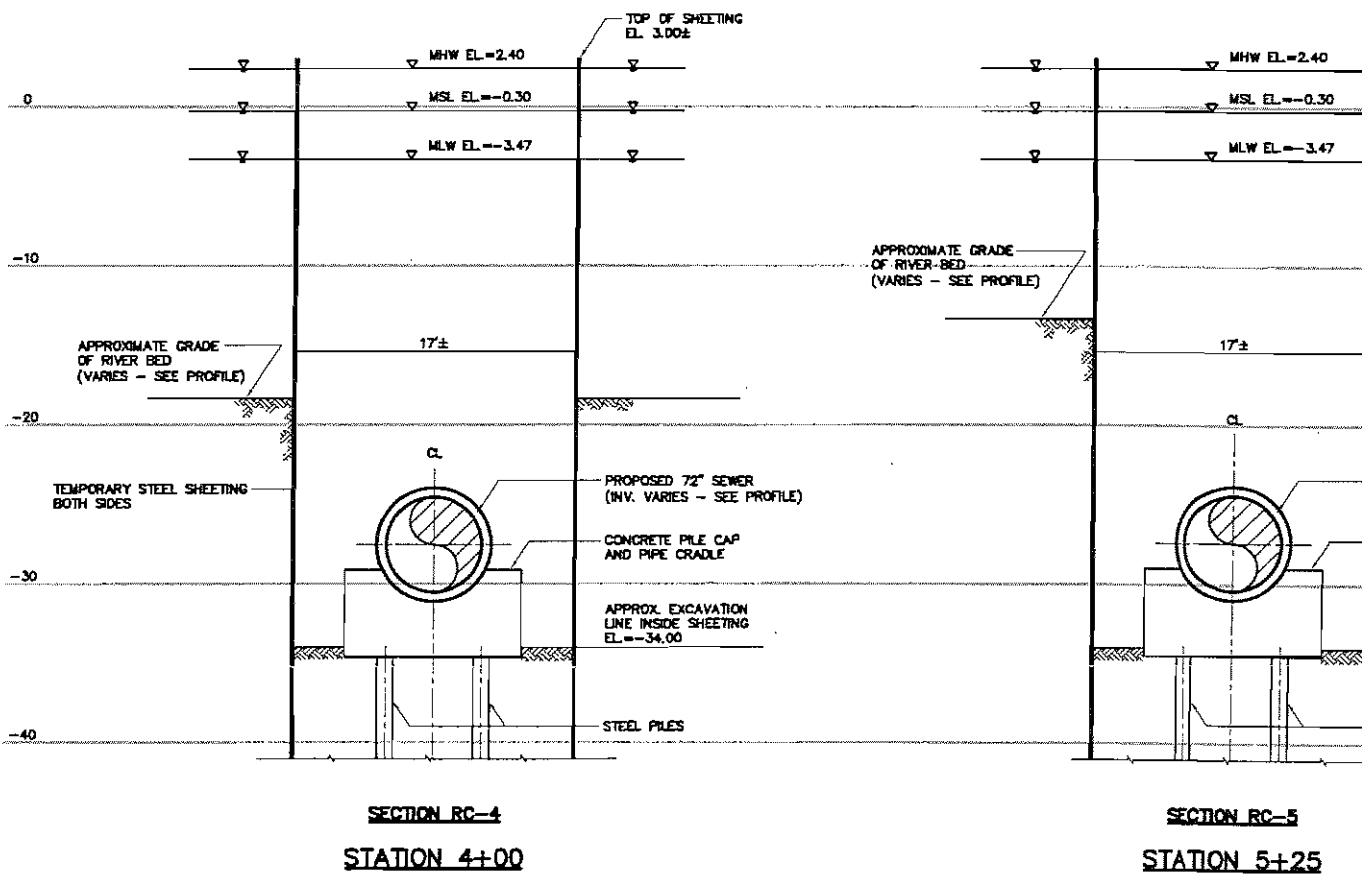
Hatch Mott  
MacDonald  
Certificate No. 246A2875000

BERGEN COUNTY UTILITIES AUTHORITY  
BERGEN COUNTY, NEW JERSEY  
OVERPECK VALLEY RELIEF SEWER  
HACKENSACK RIVER CROSSING DETAIL  
SECTIONS - 1

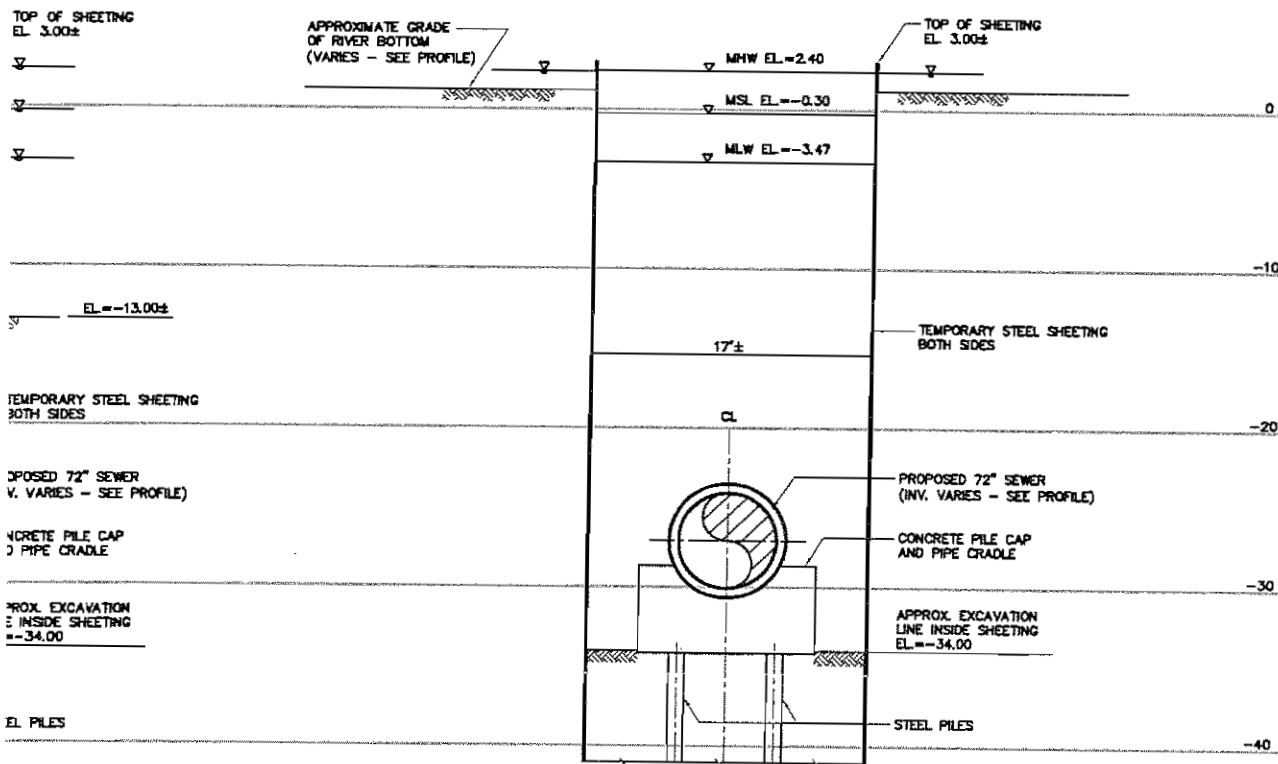
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Contract No. RC-2  
B/O Total

Designed  
Drawn  
Checked  
Approved  
Date

Date  
Revision



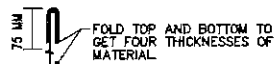
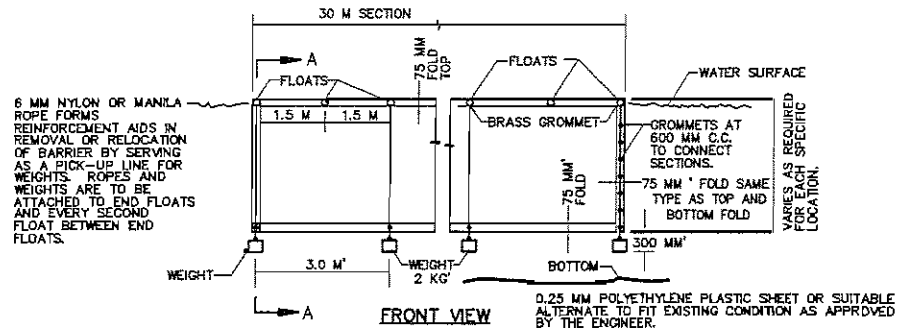




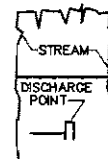
SECTION RC-6  
STATION 8+00



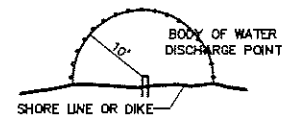
Revision		Date
<p><b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 20000</p> <p><i>James E. Farry</i> Date <i>1/10/06</i></p> <p><b>Hatch Mott MacDonald</b> Certificate No. 246A28075003</p> <p>27 Blacker Street Millburn, New Jersey 07041</p>		
Designed	Drawn	Checked
Approved	Date	
<p>BERGEN COUNTY UTILITIES AUTHORITY BERGEN COUNTY, NEW JERSEY OVERPECK VALLEY RELIEF SEWER HACKENSACK RIVER CROSSING DETAIL SECTIONS - 2</p>		
Job 216105AA01	No. RC-3	B/O Total
Contract No.		



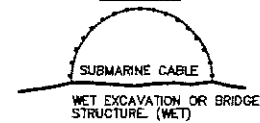
SIDE VIEW  
FOLDING DETAIL



TYPICAL APPLICATION



TYPICAL APPLICATION

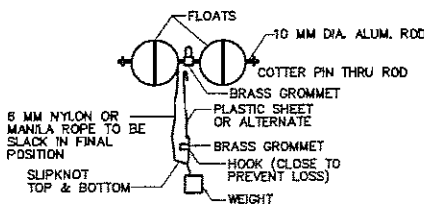


GENERAL NOTES:

PLACE SILT BARRIER TO PREVENT DRIFTING OF SILT CAUSED BY DISCHARGE OF STORM SEWERS DURING CONSTRUCTION, DREDGING OR FILLING OPERATIONS.

EXACT PLACEMENT OF SILT BARRIER SHALL BE SO AS TO EFFECTIVELY CONTROL SILT DISPERSION UNDER THE CONDITIONS PRESENT ON A PARTICULAR PROJECT.

THE DETAILS SHOWN ON THIS SHEET ARE SUGGESTED METHODS ONLY ALTERNATE SOLUTION AND USAGE OF MATERIALS MAY BE USED AS APPROVED.



SECTION A-A

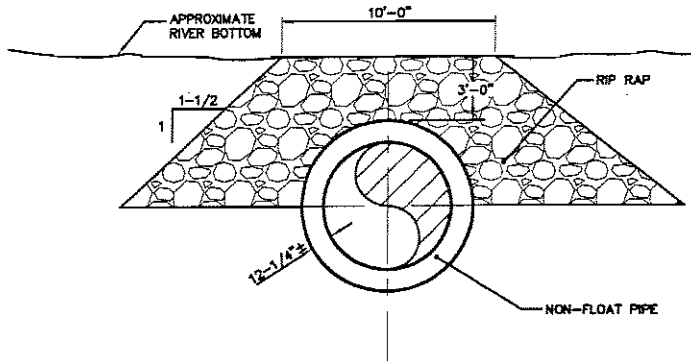
NOTE:

SUITABLE ALTERNATE MAY BE FASTENED TO STAKES DRIVEN INTO THE BOTTOM IN LIEU OF FLOATS AND WEIGHTS

**FLOATING TURBIDITY BARRIER**

N.T.S.

UNITS IN METRIC



**RI-RAP PIPE CROSS SECTION**  
 (STATION 3+25 TO 8+25)  
 SCALE: 1/4" = 1'-0"

BERGEN COUNTY UTILITIES AUTHORITY  
 BERGEN COUNTY, NEW JERSEY  
 OVERPECK VALLEY RELIEF SEWER  
 HACKENSACK RIVER CROSSING DETAIL  
 MISCELLANEOUS DETAIL 8

**Hatch Mott MacDonald**  
 Certificate No. 245428075000  
 27 Bleeker Street  
 Millburn, New Jersey 07041

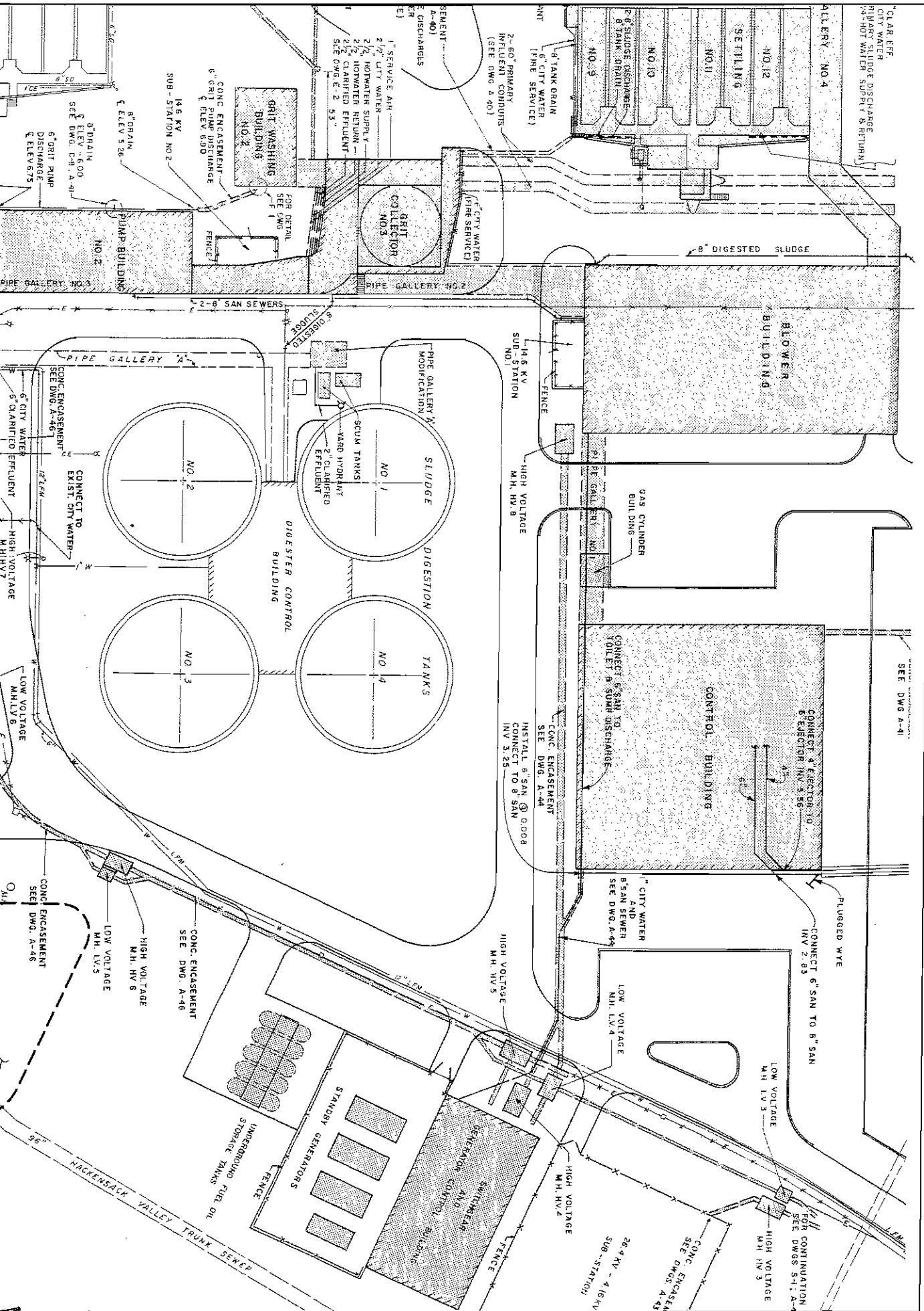
JAMES E. FARRY  
 Professional Engineer - N.J. Lic. No. 26009

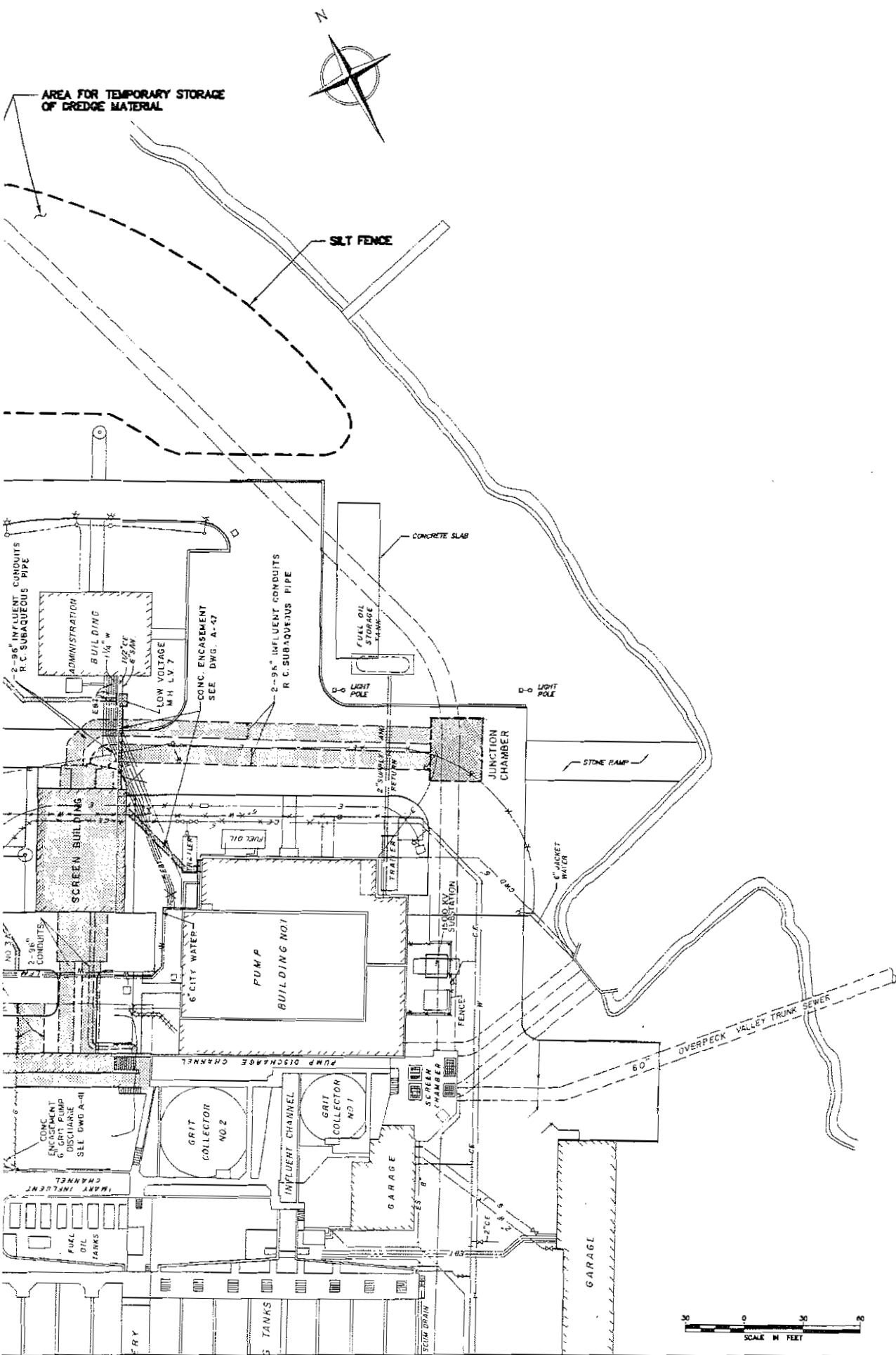
*James E. Farry*  
 Designated    Drawn    Checked    Approved    Date

Job	No.
216105AA01	RC-4
B/O	Total

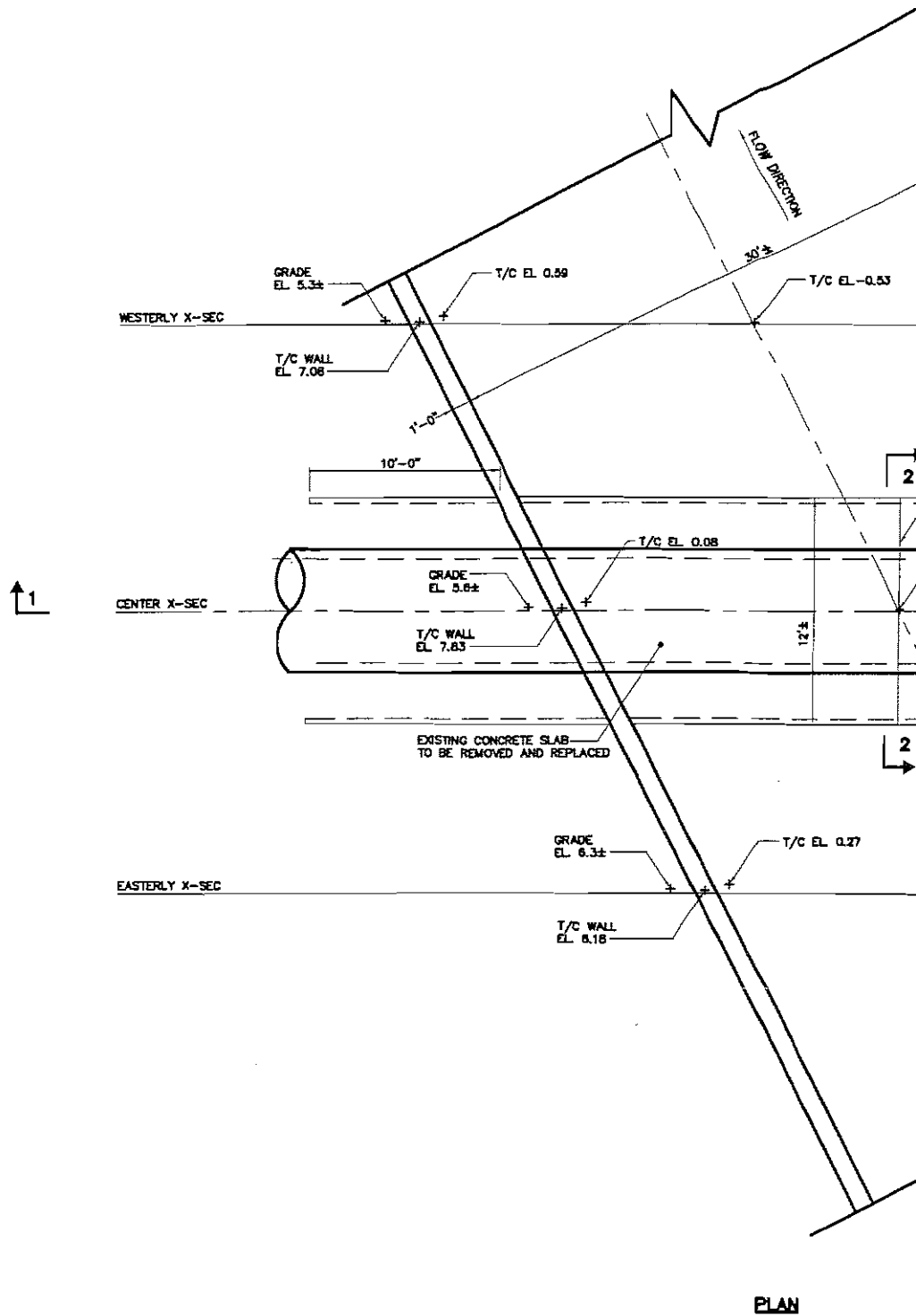
Revision    Date

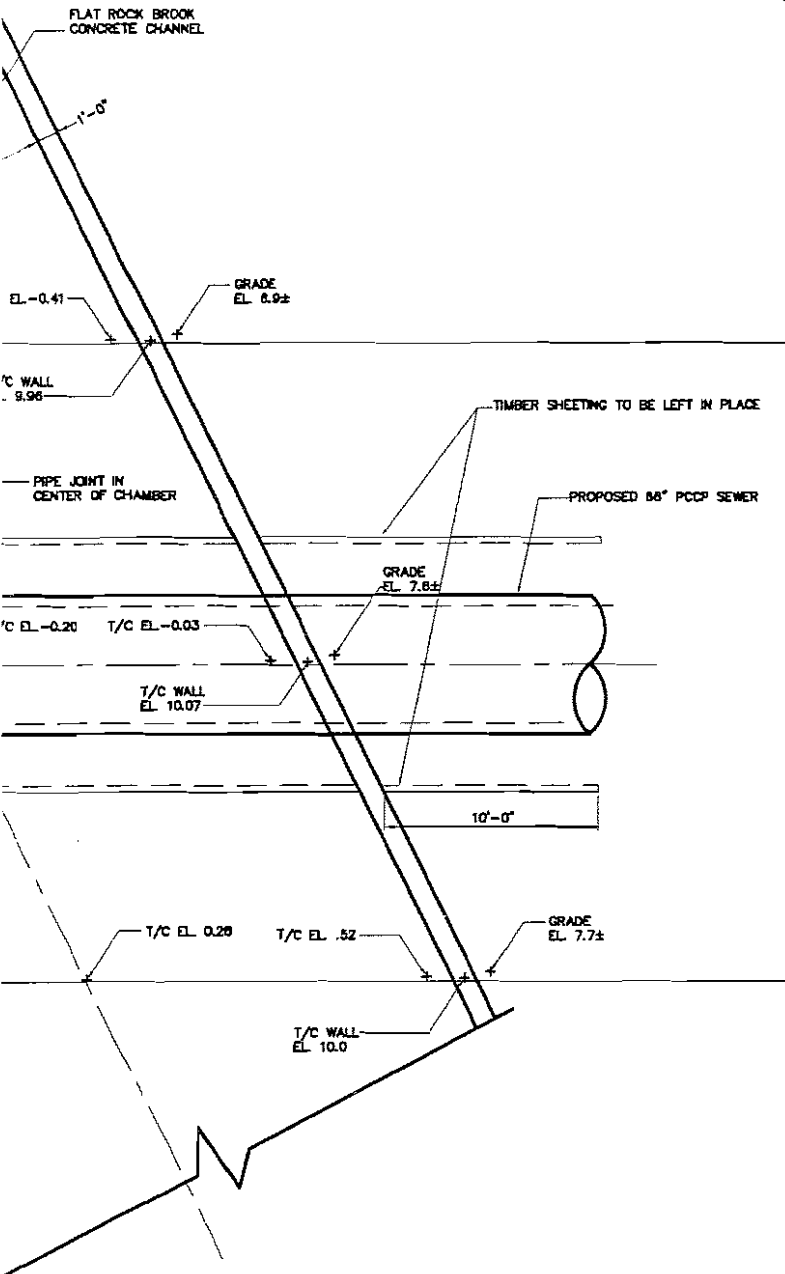
34-of 44





<b>BERGEN COUNTY UTILITIES AUTHORITY</b> BERGEN COUNTY, NEW JERSEY <b>OVERPECK VALLEY RELIEF SEWER</b> <b>HACKENSACK RIVER CROSSING DETAIL</b> <b>TEMPORARY DREDGE STORAGE AREA</b>		<b>Hatch Mott MacDonald</b> Certificate No. 24GA28075000 27 Blisker Street Milburn, New Jersey 07041		<b>JAMES E. FARRY</b> Professional Engineer - N.J. Lic. No. 26060 <i>James E. Farry</i> Date: <i>1/16/05</i>		Date Revision
215105AA01	RC-5	B/O	TOTAL	Design	Checked	Approved





**NOTES:**

1. THE CONTRACTOR SHALL INSTALL THE 66" SEWER UNDERNEATH THE EXISTING CONCRETE CHANNEL.
2. THE CONTRACTOR SHALL MAINTAIN FLOW IN 1/2 OF THE CHANNEL WIDTH AT ALL TIMES. CONTRACTOR SHALL PROVIDE SAND BAGS/BARRIERS AS REQUIRED TO ISOLATE 1/2 OF THE CHANNEL TO ACCOMMODATE CONSTRUCTION.
3. THE CONTRACTOR SHALL SAW CUT AND REMOVE THE EXISTING BOTTOM SLAB IN ORDER TO INSTALL THE NEW SEWER. THE EXISTING VERTICAL WALLS SHALL REMAIN.
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL TIMBER SHEETING LEFT IN PLACE ON BOTH SIDES OF THE SEWER AS SHOWN.



**JAMES E. FARRY**  
Professional Engineer - N.J. Lic. No. 20000  
*James E. Farry*  
Date: 10/1/00  
Approved: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Drawn: \_\_\_\_\_  
Designed: \_\_\_\_\_

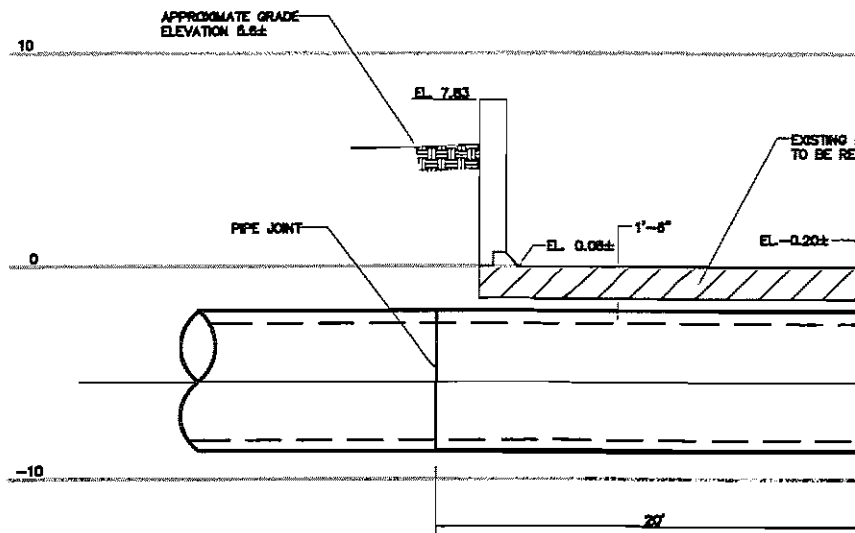
**Hatch Mott MacDonald**  
Certificate No. 246A28073000  
27 Bladock Street  
Millburn, New Jersey 07041

**BERGEN COUNTY UTILITIES AUTHORITY**  
BERGEN COUNTY, NEW JERSEY  
**OVERPECK VALLEY RELIEF SEWER**  
**FLAT ROCK BROOK**  
**CHANNEL CROSSING**  
**PLAN**

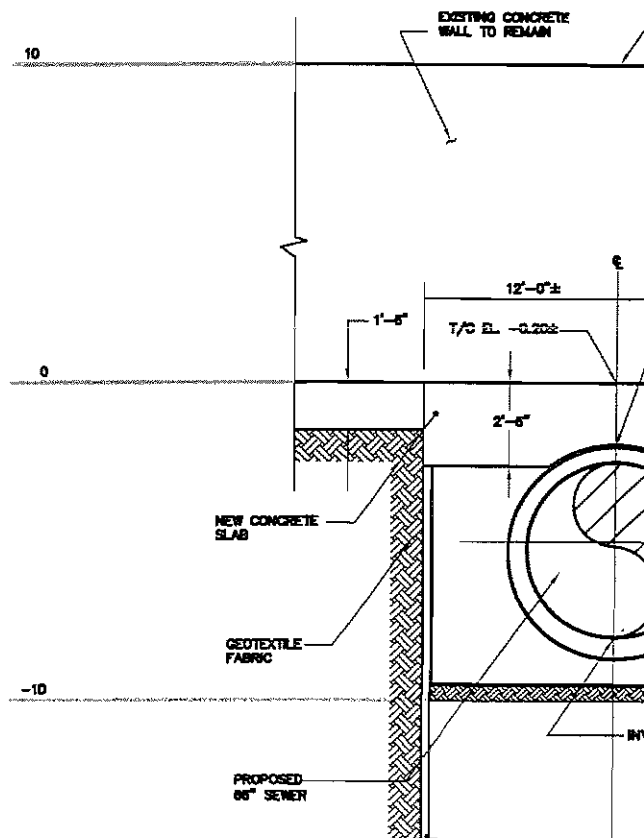
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No. DET-1  
B/C: \_\_\_\_\_  
Total: \_\_\_\_\_

Contract No.

38 of 44

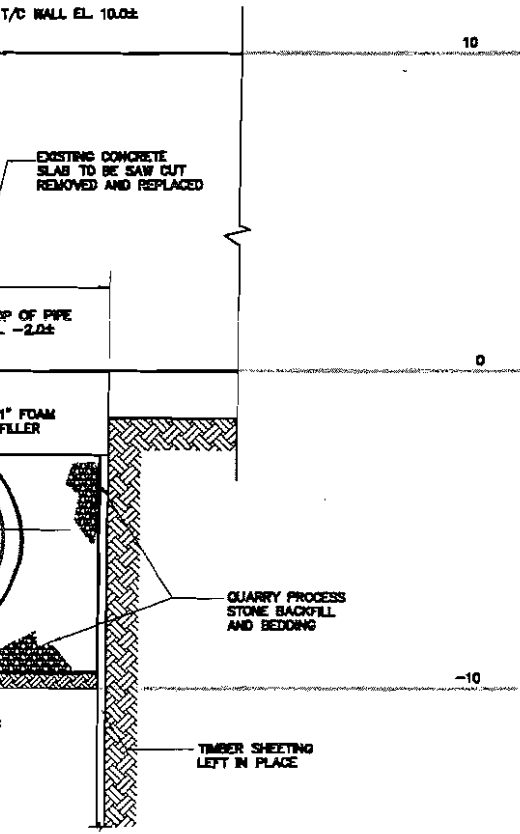
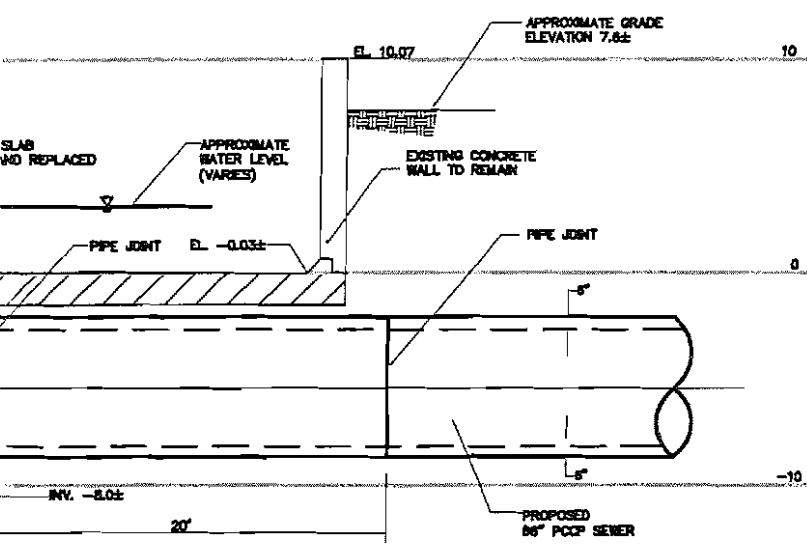


SECT  
SCALE:



SECTION  
SCALE: 3/8" =





JAMES E. FARRY  
Professional Engineer - N.J. Lic. No. 38060

*James E. Farry*  
Date: 11/16/16

Hatch Mott  
MacDonald  
Certificate No. 24038075000

27 Breaker Street  
Millburn, New Jersey 07041

BERGEN COUNTY UTILITIES AUTHORITY  
BERGEN COUNTY, NEW JERSEY  
OVERPECK VALLEY RELIEF SEWER  
FLAT ROCK BROOK  
CHANNEL CROSSING  
SECTIONS

Job	No.
218105AA01	DET-2
B/O	Total

Contract No.

# WETLANDS NOTES:

1. WORK IN WETLANDS AND WETLAND TRANSITION AREAS THAT WILL BE TEMPORARILY DISTURBED SHALL CONFORM TO REQUIREMENTS IMPOSED THROUGH APPLICABLE PERMITS. REFER TO THE NJDEP LAND USE REGULATION PERMIT LOCATED IN THE APPENDIX OF THE CONTRACT SPECIFICATIONS FOR THE WETLAND PERMIT REQUIREMENTS.
2. BOUNDARIES OF EXISTING WETLAND AREAS WILL BE IDENTIFIED BY COLORED SURVEYOR'S RIBBON.
3. CONTRACTOR SHALL INSTALL TEMPORARY SILT FENCING ALONG THE EDGES OF CONSTRUCTION EASEMENTS THROUGH WETLANDS AND WETLANDS TRANSITION AREAS AND MAINTAIN SAME IN PLACE UNTIL COMPLETION OF ALL SITE WORK. CARE SHALL BE EXERCISED WHEN REMOVING TREES, CLEARING AND STRIPPING AND EXCAVATING, TO REMAIN WITHIN THE EASEMENT PROVIDED AND NOT TO ENCRONCH UPON THE WETLAND AREAS, WHICH ARE TO REMAIN UNDISTURBED. NO MACHINES OR VEHICLES SHALL BE PERMITTED TO OPERATE OR TRAVEL BEYOND LIMITS OF THE CONSTRUCTION EASEMENT.
4. BEFORE EXCAVATION IS INITIATED IN WETLAND TRANSITION AREAS, A LINE OF HAY BALES OR OTHER SILTATION CONTROL BARRIERS SHALL BE STAKED IN PLACE ALONG THE EDGES OF THE CONSTRUCTION AREA AND SHALL REMAIN IN PLACE UNTIL RESTORATION IS COMPLETE.
5. TOPSOIL SHALL BE STRIPPED AND SOIL LAYERS REPLACED IN THE EXCAVATED AREA IN THE SAME ORDER THAT THEY WERE REMOVED. FINAL GRADE SHALL MATCH THE ELEVATION PRIOR TO DISTURBANCE.
6. TEMPORARILY DISTURBED WETLAND TRANSITION AREAS SHALL BE REVEGETATED WITH A MIX AND DENSITY OF SPECIES SIMILAR TO THAT WHICH WAS REMOVED. MATERIAL FOR VEGETATION CAN BE PRESERVED FROM THE AREAS CLEARED AND REPLANTED OR PROVIDED FROM NURSERY STOCK.
7. ANTI-SEEP COLLARS SHALL BE INSTALLED AS NEEDED IN THE TRENCH TO AVOID DRAINING THE WETLAND. AS A MINIMUM ONE ANTI-SEEP COLLAR SHALL BE CONSTRUCTED AT THE ENTRANCE AND EXIT OF WETLANDS AREAS. REFER TO THE "CLAY STOP DETAIL" ON THIS SHEET.

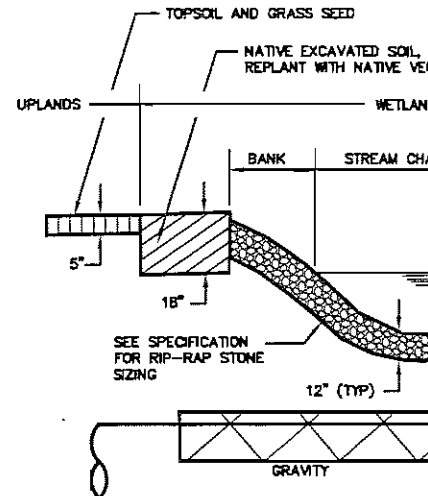
# STREAM CROSSING NOTES:

1. THE CONTRACTOR SHALL SUBMIT DETAILS AND SCHEDULE FOR STREAM/RIVER CROSSING TO THE ENGINEER PRIOR TO STARTING WORK.
2. REFER TO THE NJDEP LAND USE REGULATION PERMIT FOR THE STREAM CROSSING PERMIT REQUIREMENTS. NO INSTREAM WORK SHALL BE PERFORMED DURING THE PERIOD OF TIMING RESTRICTIONS IMPOSED BY THE PERMIT.
3. AVOID CLEARING UNTIL IMMEDIATELY PROCEEDING CONSTRUCTION.
4. PRIOR TO CLEARING, PLACE STAKED HAY BALES ACROSS THE SLOPED APPROACH TO THE STREAM CROSSING AND MAINTAIN, EXCEPT DURING ACTUAL CROSSING, UNTIL RESTORATION IS COMPLETE.
5. AVOID STOCKPILING MATERIAL IN THE FLOODPLAIN OF THE STREAM.
6. SET UP IN-STREAM SEDIMENT CONTROLS PRIOR TO COMMENCING CONSTRUCTION.
7. COMPLETE CROSSING EXPEDITIOUSLY. CONSIDER WEATHER AND ANTICIPATED STOPPAGES FOR WEEKENDS AND HOLIDAYS AND PLAN TO CROSS AT SUCH A TIME THAT THE WORK CAN BE CONTINUED UNTIL COMPLETED.
8. MAINTAIN EFFECTIVENESS OF SEDIMENT CONTROL FEATURES THROUGHOUT THE CROSSING PROCESS.
9. CONSTRUCTION THROUGH STREAM CORRIDORS, WETLANDS AND OTHER SURFACE WATERS SHALL BE SCHEDULED TO MINIMIZE DAMAGE TO FISH POPULATIONS WHEREVER POSSIBLE.
10. CONTRACTOR SHALL TAKE EVERY PRECAUTION TO KEEP DEBRIS OUT OF WATER. IN THE EVENT DEBRIS FALLS INTO THE RIVER, CONTRACTOR SHALL REMOVE OR RETRIEVE THE DEBRIS FROM THE WATER IMMEDIATELY AND INITIATE A CLEANUP ACTION THEREAFTER TO THE SATISFACTION OF THE ENGINEER.
11. RESTORATION SHALL BE INITIATED IMMEDIATELY FOLLOWING THE CROSSING AND BE COMPLETED AS SOON AS POSSIBLE. RESTORATION SHALL CONFORM TO THE FOLLOWING:
  - I. RE-ESTABLISHING CHANNEL CONTOURS;
  - II. REPLACING BOTTOM WITH NATIVE MATERIAL, OR IN VERY SILTY BOTTOMS, WITH CRUSHED STONE (1 THROUGH 3-INCH DIAMETER)
  - III. STABILIZE BANKS WITH RIP-RAP. THE SIZE AND NATURE OF THE RIP-RAP SHALL CONFORM TO THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY", PREPARED BY THE NEW JERSEY STATE SOIL CONSERVATION COMMITTEE, 1999. JUTE MESH MAY BE USED TO STABILIZE INTERMITTENT OR EXTREMELY LOW FLOW STREAMS WITH SHALLOWLY SLOPING BANKS IN SAND/SILT BOTTOMED STREAMS; AND
  - IV. REVEGETATE BANKS WITH APPROPRIATE NATIVE MATERIAL SUCH AS GRASSES, GROUND COVERS, TREES AND SHRUBS.

1/2" STAINLESS STEEL THREADED RODS W/S.S. NUTS & WASHERS ANCHORED IN 5/8" X 5 1/2" DP. DRILLED HOLES @ 4'-0" O.C. FILLED W/C-8 EPOXY AS MFR'D. BY ITW RAMSET/REDHEAD OR EQUAL (TYP. EACH SIDE 2'-0" O.C.)

2" CLR. (TYP.)

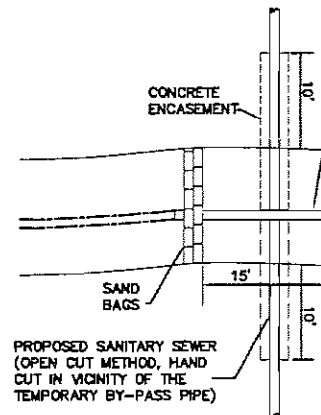
72"



SELECT EXCAVATED MATERIAL OR - CLEAN IMPORTED TYPE "G" BACKFILL

# STREAM CROSS

NOT TO SCALE



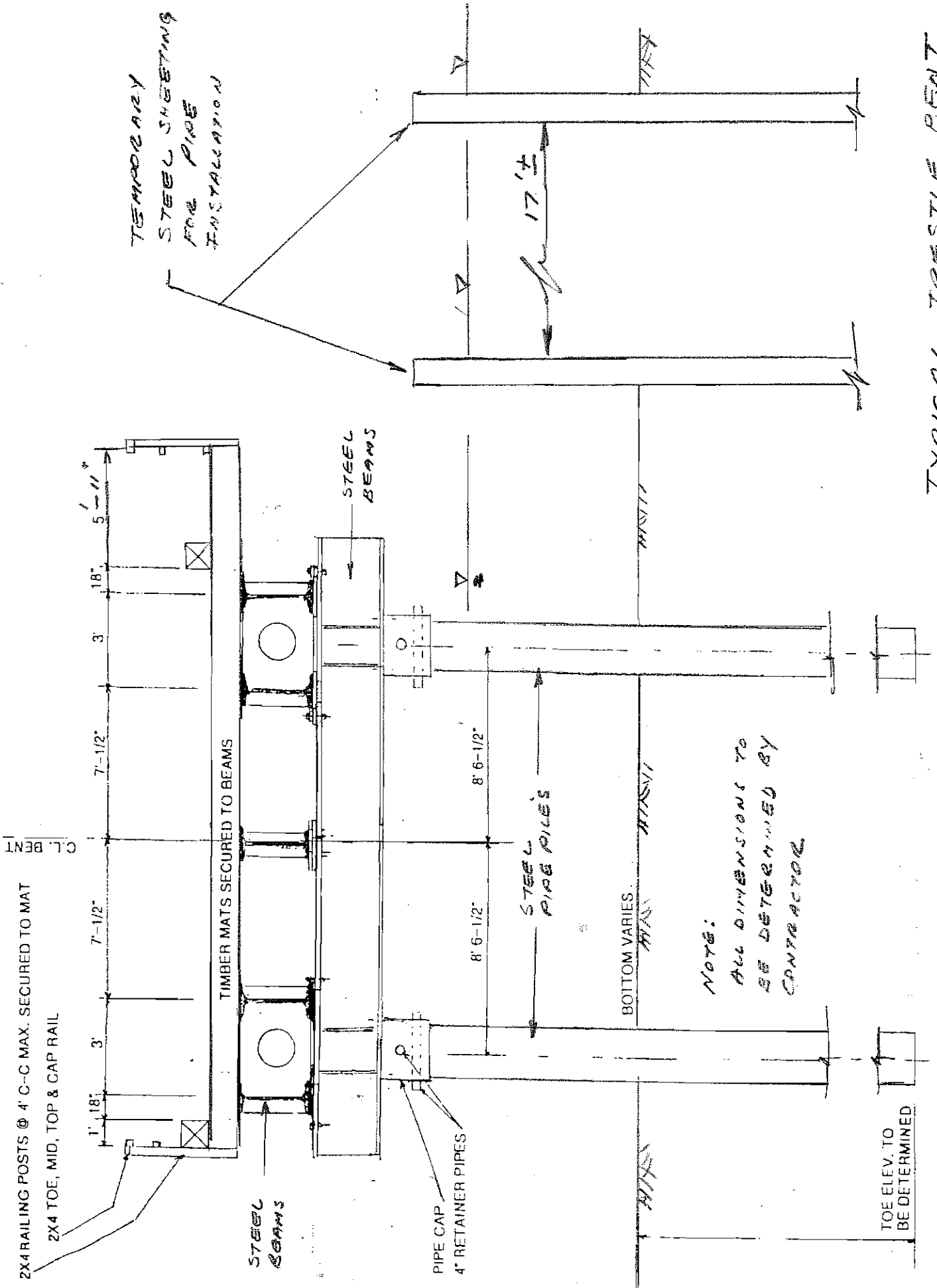
# NOTES:

- 1- TEMPORARY BY-PASS PIPE SHALL BE
- 2- SAND BAGS SHALL BE USED TO DIVER BY-PASS PIPE. PLACE UPSTREAM SA
- 3- SANITARY SEWER SHALL BE SET IN PI EXCAVATION IN VICINITY OF BY-PASS
- 4- SANITARY SEWER SHALL BE ENCASED
- 5- TRENCH SHALL BE BACKFILLED, SAND PIPE REMOVED AND STREAM RESTORE

# PIPE BY-PASS O

NOT TO SCALE





TYPICAL TREE-STEELE BENT  
NO SCALE

**BERGEN COUNTY UTILITIES AUTHORITY : OVERPECK VALLEY RELIEF SEWER**  
**TABLE - 1 : DISTURBANCE ESTIMATE (IN WETLANDS AREAS)**

Drawing Sheet No.	Disturbance Within Wetlands / State Open Waters		Misc. Comments
	Permanent Disturbance (in Sq Ft)	Temporary Disturbance (in Sq Ft)	
S-1	0	2,450	Hackensack River and wetlands
S-2	50	4,400	Micro-tunneling (receiving pit) wetland
S-3	0	0	Micro-tunneling
S-4	0	0	Micro-tunneling
S-5	0	0	Micro-tunneling
S-6	0	0	Micro-tunneling
S-7	0	0	Micro-tunneling
S-8	0	0	Micro-tunneling
S-9	0	0	Micro-tunneling
0	0	450	Wetland
S-11	0	0	
S-12	0	0	
S-13	0	1,150	Stream Crossing No. 1
S-14	0	1,800	Stream Crossing No.2
S-15	0	0	
S-16	0	0	
S-17	0	0	
S-18	0	0	
S-19	0	2,100	Stream Crossing No. 3
S-20	0	300	Stream Crossings No. 4 and No. 5
S-21	100	300	Junction Chamber, Wetland
S-22	0	0	Junction Chamber
S-23	100	240	Junction Chamber, Wetland
S-24	0	0	
S-25	0	0	
S-26	0	0	
S-27	0	0	
S-28	0	0	
S-29	0	0	
S-30	0	300	Wetland
S-31	0	620	Stream Crossing No. 6
S-32	0	0	
S-33	0	0	
S-34	0	300	Micro Tunnel, Wetland
S-35	0	0	
S-36	0	0	
S-37	0	0	
S-38	0	0	
<b>TOTAL (Sq Ft)</b>	<b>250</b>	<b>14,410</b>	
<b>TOTAL (Acres))</b>	<b>0.0057</b>	<b>0.33</b>	

- (1) TOTAL PERMANENT DISTURBANCE (Wetlands Area) = 0.0057 Acres  
(2) TOTAL TEMPORARY DISTURBANCE (in Wetlands Area) = 0.33 Acres